

FY2008 Defense Appropriations Pork List

(Dollars in thousands)

TITLE I-MILITARY PERSONNEL

Personnel – Air Force Reserve

McConnell Reserve Maintenance Personnel	\$1,600
WMD-Civil Support Team for Florida	\$1,300
WMD-Civil Support Team for New York	\$1,300

Personnel – Air National Guard

Joint Interagency Training and Education Center	\$650
166th Network Warfare Squadron	\$600
Crypto-Linguist/Intelligence Officer Initiative	\$1,600
WMD-Civil Support Team for Florida	\$400
WMD-Civil Support Team for New York	\$359

TITLE II-OPERATION AND MAINTENANCE

Operation & Maintenance-Army

Addtl support to Warrior Transition Unit for the 4/25th Airborne Brigade Combat Team to assist with comp. and other redeployment concerns	\$3,000
Modular Command Post Tent	\$4,000
Air-Supported Temper Tent	\$1,600
Scanning Technology for Accelerating Reset	\$1,600
A Second Civil Support Team for Weapons of Mass Destruction in Florida	\$300
Water Purification & Distribution Operating Systems	\$2,400
UH-60 Leak Proof Transmission Drip Pans	\$2,000
Advanced Combat Helmet PLUS	\$4,000
Cognitive Air Defense Simulators	\$1,600
Fleece Insulating Liners for Extended Cold Weather Clothing System-Generation III	\$3,200
Sawfly Combat Ballistic Protection Eyewear	\$1,600
U.S. Army Extended Cold Weather Clothing System (ECWCS) Hand Protection System	\$1,600
PARC Multi-Brigade Training Requirements	\$15,100
USARPAC Deployable C4 System	\$3,200
USARPAC GCCS & CENTRIX Operations	\$2,080
USARPAC C4 Modularity	\$2,400
USARPAC Core Warfighting C4 Network Infrastructure	\$4,320
Fort Hood Training Lands Restoration and Maintenance	\$3,000
Extended Cold Weather Clothing System - Gen III	\$2,800
Operational/Technical Training Validation Testbed for Maneuver Units at Fort Bliss	\$2,600
Recapturing the Army's Training Ranges	\$800
Tracking Reusable Assets for Contingency and Emergency Response	\$3,600
Anniston Army Depot Industrial Efficiencies .	\$1,200
GUARDRAIL	\$1,200
Biosecurity Research for Soldier Food Safety.	\$5,280
Army Conservation and Ecosystem Management	\$3,500
Child Care Center Operations	\$23,000
Roofing Restoration Program at Fort Stewart, GA	\$1,600
Rock Island Arsenal, Building 299 Roof Replacement Phase II	\$6,000
Fort Stewart Live Fire Ranges Modernization & Improvements	\$1,200
Accelerate modernization of critical operational and support facilities	\$509,000
Quadcons and Tricons for strategic mobility	\$1,200
NanoSensor StageGate Accelerator	\$1,600
Air Battle Captain (ROTC Heli Flight Training Program)	\$2,000
Critical Language Instruction for Military Personnel, Education, Training & Distance Learning	\$3,000
Leadership for Leaders at CGSC and KSU	\$500
Northern Nevada Special Operations Training Project	\$1,560
Online Technology Training Program at Fort Lewis	\$1,600
Transformation of ISO containers to 'Smart Containers'	\$1,800
US Army Battery Management Program Utilizing Pulse Technology	\$2,800
Retrograde Tracking, Monitoring and Security of U.S. Military Material	\$3,200
Army Condition Based Maintenance	\$1,600
Nanotechnology Corrosion Support	\$1,000
Autonomics Logistics Demonstration	\$1,600
Mobile Battery Shops (MBS)	\$800
Army Strategic Logistics Initiatives - Asset Visibility	\$1,600
Common Logistics Operating Environment	\$3,200
Sense and Respond Logistics Capability	\$2,800
Low Profile Phased Array Antenna	\$1,200
Warrior Transition Unit Support for the 4/25th Brigade Combat Team (Airborne)	\$1,000
One Soul: Holocaust Education Exhibit	\$1,600
Memorial Day concert	\$1,120
Fort Hood training lands restoration and maintenance	\$3,000
Recapturing the Army's training ranges	\$800
Readiness and Environmental Protection Initiative (REPI)	\$1,600
Modular Command Post Tent	\$4,000
Air-Supported Temper Tent	\$1,600

Operation & Maintenance-Navy

Naval Oceanographic Office Charting	\$3,900
Navy Ocean/Surveillance Fleet Consolidation	\$6,880
Global Force Management Visibility Tool	\$1,200
Asia Pacific Regional Initiative	\$12,000
Mk 45 Mod 5" Gun Depot Overhauls	\$11,760
Modernization/Restoration of Naval Air Station Key West Facilities and Infrastructure	\$2,400
PMRF Flood Control	\$3,000
Childcare center operations	\$12,000
Pierside Wireless Connection System	\$1,600

Navy Shore Infrastructure Transformation (NSIT)	\$3,200
Joint Electronic Warfare Training	\$1,200
Center for Defense Technology and Education for the Military Services	\$4,000
Naval Postgraduate School Laboratory modernization	\$8,000
Aircraft Rescue Firefighting (ARFF) Training	\$1,600
Military Physicians Combat Medical Training	\$1,000
Naval Sea Cadet Corps	\$300
Continuing Education through Distance Learning - St. Leo University	\$1,200
Puget Sound Navy Museum	\$1,000
Radio Frequency Identification (RFID) SMART container passive tags dynamically updating active tag	\$2,400
Local Situational Awareness Systems, NAS Lemoore	\$1,600
Restoration of Naval Facility at Centreville Beach	\$3,000
Lake Erie/Touissant River remediation	\$1,000
Spring Valley remediation	\$3,200
<u>Operation & Maintenance-Marine Corps</u>	
Combat Desert Jacket	\$3,200
USMC Shelters and Tents CP Large	\$2,400
Intermediate and organizational maintenance	\$50,000
Program (MCWCEP) Marine Corps Base Layers	\$2,400
Acclimate Flame Resistant High Performance Base Layers	\$1,600
Multi-Voltage EMI Hardened Fluorescent Stringable Tent Lighting System.	\$1,600
Combat Casualty Care Equipment Upgrade Program	\$1,600
Marine Corps Merino Wool Cushion Boot Sock	\$1,600
Self-Inflating MARPAD Sleep Pad	\$800
Coldweather Layering System	\$2,400
Advanced Fire Resistant Protective Shirt Program	\$800
Mobile Corrosion Protection and Abatement	\$1,800
Ultra Light Camouflage Net Systems (ULCANS)	\$2,400
Barracks initiative	\$7,000
Performance Enhancements for Information Assurance and information Systems-Operations	\$1,200
Childcare development center operations	\$3,000
MAGTFTC Range Transformation Initiative	\$4,000
Environmental Cleanup of Pier Dump Site, Bellows Air Force Base, Kaneohe	\$2,000
<u>Operation and Maintenance – Air Force</u>	
MBU-20/P Oxygen Mask and Mask Light	\$3,000
Interoperable Communications/Enterprise Network for USNORTHCOM	\$3,200
Eielson Utilidors	\$9,000
Building 641 (AFIT)	\$2,000
Operational Upgrades, BLDG 9480	\$9,000
Alaska Land Mobile Radio [ALMR]	\$4,300
Electrical Distribution Upgrade at Hickam AFB	\$7,000
Childcare center operations	\$2,800
Portable Illumination System	\$8,000
Red Flag PARC Upgrades	\$7,500
8111 Air Force Cyberspace Innovation Center	\$4,000
National Security Space Institute	\$2,640
Center for Space and Defense Studies	\$500
Engineering Training & Knowledge Preservation System	\$1,600
Naval Postgraduate School PhD in Homeland Defense	\$3,200
Advanced Technical Intelligence Center (ATIC) – Human Capital Development (HCD)	\$4,000
MacDill AFB Online Technology Program	\$800
Online Technology Training Program at Nellis AFB	\$1,600
Junior ROTC Programs	\$2,000
Lean Process Improvement	\$1,600
Center for Parts Configuration Management [CPDM]	\$2,400
Engine Health Management Plus Data Repository Center	\$1,600
Mission Critical Power System Reliability Surveys	\$800
Air Force Material Command's Net-Centric Emergency Notification System	\$800
Demonstration Project for Contractors Employing Persons with Disabilities	\$1,600
Mobile Shear	\$400
Military Legal Assistance Clinic	\$4,000
Air Force Manufacturing Technical Assistance and Production Program	\$1,200
Civil Air Patrol	\$2,300
AK CAP Survival Equipment	\$500
Environmental cleanup of pier dump site, Bellows AFB, Kaneohe Mari	\$2,000
<u>Operation and Maintenance – Defense-Wide</u>	
Special Operations Forces Tele-Training Systems (SOFTS)	\$1,000
SOF Mission Training & Prep Systems Interoperability	\$1,200
Strategic Language Initiative	\$1,200
Defense Critical Languages and Cultures Program	\$1,000
National Security Education Program	\$8,000
National Guard Youth Challenge Program	\$12,000
STARBASE Program	\$4,000
Commercial Technologies for Maintenance Activities	\$1,600
Procurement Technical Assistance Program	\$7,000
NIMBLE ELDER and international Counterproliferation	\$9,500
Defense Threat Reduction University Consortium	\$1,000
Educational system enhancements	\$20,000
Family Advocacy Programs	\$3,999
Expanded Service	\$167,406
Lewis Center for Education Research	\$2,400
Parents as Teachers Heroes	\$2,400
Military Child Education Coalition	\$4,000

Contract Service Management Oversight	\$140
00Translation and Interpretation Skills for DoD	\$1,600
Regional Centers for Security Studies	\$16,000
Office of Economic Adjustment	
Thorium/Magnesium Excavation- Blue Island	\$1,200
Dauids' Island - Fort Slocum Remediation	\$8,000
McClellan AFB Infrastructure improvements	\$2,400
Hunter's Point Shipyard Improvements	\$9,300
Port of San Francisco Site Investigation and. Remedial Action	\$2,400
Charles E. Kelly Relocation Project	\$4,000
Delaware Valley Continuing Education Initiative for National Guard and Reserve	\$1,000
National Guard and Reserve	\$1,000
Frankford Arsenal Environmental Assessment and Remediation	\$1,600
Norton AFB – Infrastructure Improvements	\$4,000
Stabilization/Repair of the Ship Repair Facility at MOTBY	\$8,000
Access to Joint Tanana Training Complex	\$44,200
Intermodal Marine Facility-Port of Anchorage	\$11,000
Exhibit on Role of Arab Americans in the Defense of Our Country	\$2,000
Office of the Secretary of Defense	
Middle East Regional Security Issues Program	\$2,400
Critical Language Training, SDSU	\$1,000
Modeling & Simulation of Joint Logistics Command & Control Processes	\$1,000
Study on National Security Interagency System	\$2,400
Aircraft Logging and Recording for Training	\$1,600
Readiness and Environmental Protection Initiative	\$16,000
Joint Logistics Education Training & Education Testbed (JLETT)	\$1,000
Soldier Center at Patriot Park, Ft. Benning	\$6,000
Enterprise-wide Data and Knowledge Management System to Enhance USSOCOM Mission	\$1,000
Military Intelligence Service Historic Learning Center	\$800
Armed Forces Health and Food Supply Research	\$3,200
Impact Aid	\$30,000
Impact Aid for Children with Disabilities	\$5,000
Commission on the Prevention of Weapons of Mass Destruction Proliferation and Terrorism	\$1,500
First Tee	\$3,000
TOTAL OPERATION & MAINTENANCE PORK	\$1,380,585
<u>TITLE III-PROCUREMENT</u>	
<u>Aircraft-Army</u>	
Vibration Management Enhancement Program	\$2,400
TCAS/TAWS Collision Avoidance	\$500
IVHMS System—Tennessee National Guard	\$2,000
UH-60A Re-wiring program	\$2,000
FLIR Radar System for UH-60L Upgrade	\$800
UH-60A to UHL Upgrade	\$1,600
Internal Extended Range Fuel System	\$3,600
Combat Vehicle and Automated Advanced Technology	\$2,000
UH-60 Medevac AND Search and Rescue Thermal Imaging Upgrades	\$1,000
IVHMS System—Tennessee National Guard	\$2,880
Kiowa Warrior	\$31,000
Air Warrior	\$800
Cockpit Air Bag System	\$1,600
Ft Knox Godman Airfield ASR	\$3,200
<u>Missile Procurement-Army</u>	
Javelin (AAWS)	\$64,114
Patriot Mods	\$208,514
Improved Target Acquisition System/TOW Mods	\$121,440
<u>Weapons & Tracked Combat Vehicles-Army</u>	
Combat Vehicle and Automated Advanced Technology for the Antiballistic Windshield Armor Project	\$2,000
Fire Support Vehicle	\$35,400
Improved Recovery Vehicle (MOD) M88	\$87,500
M240 Medium Machine Gun	\$7,989
Machine Gun, Cal .50	\$13,317
M249 Saw Gun	\$9,241
MK-19 Grenade Machine Gun	\$15,448
Mortar System	\$4,704
Grenade Launcher Module	\$5,505
XM110 SemiAutomatic Sniper System	\$460
M4 Carbine	\$8,274
Shotgun, Modular Accessory System	\$906
Common Remotely Operated Weapons Station	\$29,895
Howitzer LT WT 155MM	\$143,518
M4 Carbine Mods	\$4,018
M240 Medium Machine Gun Mods	\$1,523
M16 Rifle Mods	\$188
Base Security System	\$1,600
USASOC M-9 9mm Pistol	\$1,200
Grow the Army	\$1,262
Additional M-9s	\$3,500
Rock Island Arsenal—Arsenal Support Program	\$11,500
Watervliet—Arsenal Support Program	\$9,600
<u>Ammunition-Army</u>	
CTG, 60MM, Mortar, Practice, M769	\$1,600

Bunker Defeat Munitions	\$2,400
MI-RAMS	\$3,200
M18 Smoke Grenades	\$4,000
Blue Grass Army Depot Supercritical Water Oxidation	\$2,400
Ammunition Peculiar Equipment Outloading Module	\$800
Holston Army Ammunition Plant—Thermobaric Extruder Facility	\$2,400
Holston Army Ammunition Plant, Critical Reliability Upgrade	\$1,600
Radford Army Ammunition Plant—Solvent Recovery-System and Environmental Mitigation	\$8,000
Lake City Army Ammunition Infrastructure Requirements	\$3,000
<u>Other Procurement-Army</u>	
Semitrailers-Grow the Army	\$171
Tactical Trailers/Dolly Sets	\$9,631
M872A4 34T Flatbed Trailer	\$2,960
M871 Series Trailer Refurbishment Program	\$800
HMMWV-Grow the Army	\$351,100
Vehicle Emergency Escape Window	\$800
Family of Heavy Tactical Vehicles	\$80,641
Armored Security Vehicle, Turret Upgrades	\$2,800
Grow the Army	\$126,288
HMMWV Restraint System	\$4,000
Towing Device-Fifth Wheel	\$34
Defense Enterprise Wideband SATCOM Systems	\$37,600
Super High Frequency Terminal	\$5,174
Navstar GPS-Grow the Army	\$10,413
Defense Advanced GPS Receiver	\$4,000
Global Broadcast Service-GBS-Grow the Army	\$2,250
Army Global Command & Control System	\$400
Radio Terminal Set, Multifunctional Information Distribution System Low Volume	\$28,995
SINCGARS Family-Grow the Army	\$10,563
Radio Personality Modules—test equipment	\$2,000
Bridge to Future Networks-Grow the Army	\$65,562
Satellite MultiModal Collaborative Crisis & Training Network for the MN ARNG	\$3,000
Spider Antipersonnel Landmines Alternative Remote Control Unit-Grow the Army	\$887
Radio, Improved High Frequency Family-Grow the Army	\$15,844
Medical Communications for Combat Casualty Care	\$2,429
Transmission Security-Army Key Management System	\$4,568
Information System Security Program-Grow the Army	\$31
Critical Army Systems-Cyber Attack Technology	\$1,200
Trunked Radio System	\$2,500
Information Technology Upgrades for Detroit Arsenal	\$1,700
All Source Analysis System-Grow the Army	\$16,353
Joint Tactical Terminal/Common Integrated Broadcast Service Modules-Grow the Army	\$4,006
Handheld Phraselator System	\$2,400
Tactical Unmanned Aerial System-Grow the Army	\$30,660
Warrior Block 0 All-weather, H—Fidelity Sensor Upgrades	\$4,000
MQ-5B Hunter Tactical Unmanned Aircraft System	\$8,000
Small Unmanned Aerial System-Grow the Army	\$12,798
Digital Topographic Support System-Grow the Army	\$4,250
Distributed Common Ground System-Army	\$32,788
Counter Intelligence/Human Intelligence Information Management System-Grow the Army	\$276
MIP-Grow the Army	\$5,519
Wideband Imagery Dissemination Systems for National Guard	\$7,680
Lightweight Counter Mortar Radar-Grow the Army	\$5,304
Night Vision Devices-Grow the Army	\$147,102
Modular Tactical LED Weapon Light with IR Illuminator	\$1,600
MX-2A Miniature Remote Thermal Imager	\$1,600
Long Range Advanced Scout Surveillance System-Grow the Army	\$29,538
Night Vision/Thermal Weapons Sight-Grow the Army	\$102,417
Profiler-Grow the Army	\$2,800
Profiler—Meteorological Measuring Set	\$2,500
AN/TPQ-37 Firefinder Radar Reliability, Maintainability Improvements	\$2,500
Force XXI battle Command Brigade and Below-Grow the Army	\$74,160
Lightweight Laser Designator/Range Finder-Grow the Army	\$43,400
Computer Ballistics: Lightweight handheld Mortar Ballistic Computer XM32-Grow the Army	\$1,001
Fire Support C2 Family	\$6,676
Battle Command Sustainment Support System-Grow the Army	\$828
Windows Based AFATDS for the TN National Guard	\$3,360
Air and Missile Defense Planning and Control Systems-Grow the Army	\$20,751
Knight Family-Grow the Army	\$26,000
Automated ID Technology Life Cycle Asset Management for the 160th Special Operations Aviation Regiment	\$2,400
Transportation Coordinators-Automated Information for Movement System II-Grow the Army	\$362
Tactical Internet Manager-Grow the Army	\$1,053
Maneuver Control System-Grow the Army	\$1,722
Single Army Logistics Enterprise-Grow the Army	\$96,042
Arsenal/Depot AIT at ANAD and RRAD	\$1,600
Combat Service Support Communications-Grow the Army	\$2,680
Surveying Equipment-Grow the Army-Grow the Army	\$3,760
Radiac Set AN/PDR 77-Grow the Army	\$39
CBRN Soldier Protection-Grow the Army	\$13,532
Smoke & Obscurant Family-SOF-Grow the Army	\$1,379
Handheld Standoff Minefield Detection System	\$395
Fido Explosive Detector	\$3,000
Heaters & Environmental Control Units-Grow the Army	\$1,397
Laundries, Showers and Latrines-Grow the Army	\$7,050

Soldier Enhancement-Grow the Army	\$6,263
Microclimate Cooling Unit for Military Tactical Vehicles	\$1,000
Lightweight Maintenance Enclosure	\$4,000
Field Feeding Equipment-Grow the Army	\$30,022
ENG SPT EQ-Grow the Army	\$985
Recon-Navigation System for Diver Propulsion Devices	\$2,400
Water Purification Systems-Grow the Army	\$436
Lightweight Water Purifier	\$1,600
Combat Support Medical-Grow the Army	\$871
Combat Support Hospital	\$3,200
Cartledge Infuser	\$1,800
Mobile Maintenance Equipment Systems-Grow the Army	\$10,698
Grader, Road Motorized, Heavy, 6x4-Grow the Army	\$3,310
Scrapers, Earthmoving-Grow the Army	\$6,579
Loaders-Grow the Army	\$1,044
Hydraulic Excavator-Grow the Army	\$2,189
Tractor, Full Tracked-Grow the Army	\$2,189
High Mobility Engineer Excavator (HMEE)-Grow the Army	\$2,287
Construction Equipment-Grow the Army	\$338
Generators and Associated Equipment	\$18,612
Rough Terrain Container Handler	\$22,308
All Terrain Lifting Army System-Grow the Army	\$14,985
All Terrain Lifter Army System II	\$2,400
Mobile Virtual Training Capability	\$2,500
America's Future Soldier Trainer Acquisition Program	\$2,000
America's Army Live-Fire Shoot House Deployment	\$800
Call for Fire Trainer/Joint Fires and Effects Trainer System	\$3,200
Muscatatuck Urban Training Center Instrumentation	\$1,600
Call for Fire Trainer for the ARNG	\$4,000
Laser Marksmanship Training System (LMTS)	\$4,000
Virtual Warrior Interactive (VWI)	\$3,200
Air and Missile Defense Instrumentation System	\$1,600
Combat Arms Training System for the ARNG	\$3,200
Combat Skills Simulation Systems, OH ARNG	\$1,000
1/25th SIB Range Improvement	\$11,000
Combined Arms Virtual Trainers	\$4,800
Combined Arms Virtual Trainers for TN National Guard	\$4,800
FlexTrain eXportable Combat Training Capability	\$2,000
FlexTrain eXportable Combat Training, Camp Ripley MN.	\$2,000
I-MILES and I-HITS for Home Station Training	\$20,000
HMMWV and Tactical Truck Convoy Trainer	\$8,000
IHITS for Blue Force Tracking and Training	\$4,000
Immersive Group Simulation Training Demonstration	\$1,000
Laser Collective Combat Training System for the ARNG	\$4,000
Tabletop Trainers	\$4,000
Tabletop Trainers for the TN National Guard	\$4,000
Training Range Enhancements	\$32,000
Virtual Door Gunner Trainer for the TN National Guard	\$4,800
Physical Security Systems-Grow the Army	\$1,638
Up-Armored HMMWV and Tactical Truck Crew Trainers for TN ARNG	\$9,000
Battlefield Anti-Intrusion System	\$1,200
Mobile Defense Fighting Positions	\$3,500
<u>Aircraft-Navy</u>	
USMC UC-12 Replacement Aircraft	\$8,300
CH-46 Communications Enhancements	\$1,600
Advanced Helicopter Emergency Egress Lighting System(ADHEELS)	\$1,600
Integrated Mechanical Diagnostics Health and Usage Management for CH-53	\$4,640
P-3C High Resolution Digital Recorder	\$1,500
P-3 Command, Control, Communications and Computers (C4) for Anti-Submarine Warfare (ASW)	\$4,000
P-3 Electronic Support Measures Upgrades	\$2,400
C-130 Aircraft Health Monitoring System	\$1,000
C4ISR Operations & Training	\$4,000
AN/AAR-147	\$4,000
Direct Squadron Support Readiness Training	\$3,600
LAU-7 Sidwinder Missile Launcher Replacement Program	\$1,000
Coyote GQM-163A Supersonic Sea-skimming Target	\$1,000
ABL Facility Restoration Program	\$54,000
MK-30 Mod2 Anti-Submarine Warfare Training System	\$1,600
MK-54 Torpedo Test Hardware	\$1,600
MK-48 ADCAP Torpedo Critical Component Production Restart	\$3,200
Anti-Submarine Warfare (ASW) Enhancements	\$6,400
Destroyer Modernization Weapons	\$8,000
<u>Ammunition-Navy & Marine Corps</u>	
5 inch/54 ammunition	\$2,400
Small Arms Ammunition-Grow the Force	\$113,494
Linear Charges, All Types-Grow the Force	\$8,827
40 MM, All types-Grow the Force	\$23,973
60MM, All types-Grow the Force	\$47,589
81 MM, All Types-Grow the Force	\$80,720
120MM, All Types-Grow the Force	\$10,928
Grenades, All Types-Grow the Force	\$23,887
Rockets, All Types-Grow the Force	\$26,769
M72 Lightweight Attack Weapon Systems (LAW)	\$3,200
Artillery, All Types-Grow the Force	\$22,274

Demolition Munitions, All Types-Grow the Force	\$8,770
Fuze, All Types-Grow the Force	\$1,961
Non Lethals, Grow the Force	\$183
<u>Shipbuilding and Conversion-Navy</u>	
Accelerate second submarine procurement	\$588,000
Economic order quantity	\$470,000
AGS Pallets	\$3,840
Tenth Ship Advance Procurement	\$50,000
<u>Other Procurement-Navy</u>	
Inspections Systems for Propulsion Equipment	\$1,500
AN/WSN-7 fiber Optic Gyro System Upgrades	\$2,400
Communications Upgrade for DDG Modernization	\$3,120
CVN Propeller Replacement Program	\$5,600
JP-5 Manifold Electric Valve Operator	\$1,600
LSD-41/49 Diesel Engine Low Load Upgrade Kit	\$3,200
Shipboard Network Protection System	\$1,600
Canned Lube Pumps LSD-41/49 Class Amphibious Ships	\$1,600
CB90 Riverine Command Boat	\$6,000
Advanced Boat Lifts for Navy Small Boats Program	\$2,000
AN/SPY-1 Radar System Readiness Improvement	\$1,000
AN/SPS-67 Back Fit Engineering Support	\$1,600
Enhanced Detection Adjunct Processor	\$4,000
Radar Distribution Open Architecture Refresh	\$4,000
AN/SPQ-9B Radar fir DDG 51 Modernization Program	\$4,800
Anti-Submarine Warfare (ASW) Enhancements	\$5,600
Anti-Submarine Warfare (ASW) Enhancements (transfer from line 32)	\$4,400
Carrier/LHA Ship Self-Defense System Open Architecture & Security Upgrades	\$1,600
Minesweeping System Replacement (MCM-1 Class Combat System Upgrade/Acoustic Generators)	\$800
Remote Multi Mission Vehicle (transfer from line 28)	\$10,500
Allen Telescope Array	\$1,600
Real-Time Identification and Total Asset Viability (RITAV)	\$500
Sonobuoys-All Types	\$2,500
Multi Climate Protection System [MCPS]	\$2,000
Airborne Laser Mine Detection System (transfer from line 28)	\$3,800
Aegis Computer Center Upgrades	\$1,600
Intelligraf Data Distribution Training	\$6,000
Laser Marksmanship Training System (LMTS) for the Naval Reserves	\$1,600
Training Range Enhancements	\$32,000
MSAT Simulator for GWOT Training	\$1,920
High Performance Computing Capability	\$500
Man Overboard Identification System	\$800
Envelop Protective Covers	\$1,600
NAVRES IT COOP	\$1,600
<u>Marines Corps-Procurement</u>	
AAV7A1 PIP-Grow the Force (transferred from line 1 per USMC direction for execution)	\$1,052
LAV PIP-Grow the Force (transferred from Line 1 per USMC)	\$1,182
Lightweight Towed Horwitzer	\$81,000
Weapons & Combat Vehicles under \$5M-Grow the Force	\$35,684
Modular Weapon System-Grow the Force	\$12,471
Modification Kits-Grow the Force	\$100,000
Weapons Enhancement Program-Grow the Force	\$15
Modification Kits-Grow the Force	\$46,670
Units Operations Center-Grow the Force	\$37,450
Combat Operations Center	\$2,400
Repair & Test Equipment-Grow the Force	\$51,161
Combat Support System-Grow the Force	\$424
Modification Kits-Grow the Force	\$24,189
COM & ELEC Under \$5M-Grow the Force	\$10
Air Operations C2 Systems-Grow the Force	\$26,017
Mobile Optical Sesnor Suite	\$3,200
Radar Systems-Grow the Force	\$114,654
Fire Support-Grow the Force	\$23,789
Intelligence Support Equipment-Grow the Force	\$120,033
Night Vision Equipment-Grow the Force	\$31,599
Common Computer Resources-Grow the Force	\$22,005
Marine Corps Enterprise Information Technology Systems COOP	\$2,000
Command Post Systems-Grow the Force	\$9,451
Radio Systems-Grow the Force	\$115,034
Comm Switching & Control Systems-Grow the Force	\$75,725
Comm & Electronic Support	\$2,303
Tactical Support Structures for AN/TPS-59 Radar System	\$4,800
5/4T Truck HMMV-Grow the Force	\$155,479
Medium Tactical Vehicle Replacement-Grow the Force	\$76,070
Logistics Vehicle System-Grow the Force	\$8,300
Marine Corps Flat-Rack	\$2,400
Items Less than \$5M-Grow the Force	\$2,915
Environmental Control Equip Assort-Grow the Force	\$3,881
Bulk Liquid Equipment-Grow the Force	\$2,018
Tactical Fuel Systems-Grow the Force	\$11,518
Power Equipment Assorted-Grow the Force	\$6,897
Amphibious Support Equipment-Grow the Force	\$1,876
EOD Systems-Grow the Force	\$29,425
Light Vehicle Intercom System	\$2,400
material Handling Equip-Grow the Force	\$21,928

Field Medical Equipment-Grow the Force	\$15,752
Training Devices-Grow the Force	\$15,752
Praetorian	\$4,000
Range Information Initiative	\$4,000
Container Family-Grow the Force	\$7,917
Family of Construction Equipment-Grow the Force	\$79,286
Bridge Boats-Grow the Force	\$43,903
Rapid Deployable Kitchen-Grow the Force	\$17,862
Items Less than \$5M-Grow the Force	\$15,565
Joint Precision AirDrop System-Mission Planner Rapid Fielding Initiative	\$800
Trailers-Grow the Force	\$70,000
<u>Aircraft Procurement-Air Force</u>	
HC-130 Recap Advance Procurement (CY)	\$15,200
Civil Air Patrol A/C	\$1,800
Upgrades for 76-aircraft B-52 fleet	\$15,200
ARC210 Improved Communications for A-10	\$2,000
ANG Block 42 Engine Upgrade	\$23,000
Retrofit	\$1,600
ARC 210 Improved Communications for F-16	\$6,000
T-1 (AF requested transfer from Line 34)	\$12,968
Senior Scout Integrated Mission Trainer	\$1,000
C-130 Active Noise Cancellation	\$1,500
AN/APN-241 Radar for ANG C-130	\$3,200
Global Air Traffic Management for KC-135	\$7,200
H-60 (Transfer from Line 71, RDTE AF) Upgrades Only	\$99,000
Communications Special Test Equipment Global Hawk	\$1,600
RC-26B Modernization Program	\$3,200
Hawk spares	\$7,000
USAF decision to procure T-1 instead of C-21	\$14,904
Raincoat	\$2,400
LITENING Targeting Pods for F-16s and A-10s	\$39,600
<u>Missile Procurement-Air Force</u>	
ICBM Remote Visual Assessment	\$10,500
Advanced EHF (AP-CY)	\$125,000
<u>Ammunition-Air Force</u>	
GBU-49	\$6,000
<u>Other Procurement-Air Force</u>	
Fixed Base Weather Observation Systems	\$4,000
Science, Engineering and Laboratory Data Integration	\$1,600
Pocker J for NORAD	\$2,400
IMPACT (Information Modernization for Processing with Advance Coating Technologies	\$1,600
AVT234-Target Motion Cueing (TC) Integration Kits	\$500
IBDSS for Moody Air Force Base	\$1,600
Ground Space Electronic Security System, Schriever AFB	\$1,600
Unmanned Threat Emitter Modernization	\$2,400
Savannah Combat Readiness Threat Centers	\$4,000
Training Range Enhancements	\$32,000
Red Flag PARC Upgrades	\$20,000
Mobile Common Data Link Gateway	\$1,600
Secure Wireless LAN, 183rd Fighter Wing	\$2,000
Integrated Imagery Network-Nevada National Guard	\$5,800
Ground Multiband Terminal	\$1,600
Joint Helmet Mounted Cueing System	\$3,500
Senior Scout—ROVER III	\$2,400
Digital Deployed Training Campus for the Air National Guard	\$3,200
Alaska Land Mobile Radio [ALMR]	\$2,000
Great Plains Joint Regional Training Center	\$500
AK NORAD Comm Survivability and Diversity	\$7,468
Smoky Hill Range Urban Operations/Disaster City Training Site	\$2,400
Quadeye Night Vision Goggles for HH-60 aircraft	\$1,600
Inertia Reel Restraint System Retrofit	\$2,400
Machine Gun Training System for the Air National Guard	\$4,000
Laser Marksmanship Training System	\$4,000
Great Plains Joint Regional Training Center Safety Equipment	\$320
Joint Combined Aircrew Systems Tester	\$2,000
Life Support Radio Test Sets	\$1,200
Distributed Ground Station-Work Station Equipment Sets	\$1,600
<u>Procurement-Defense-Wide</u>	
Expansion of Mobile Forensics Labs and Technical Assistance and Training Support	\$1,600
Tactical Local Area Network for SOCOM	\$2,000
Optimal Placement of Unattended Sensors	\$2,000
MK47 Mod 0 Striker 40	\$4,800
SOVAS Handheld Imager	\$6,000
Fusion Goggle System [FGS]	\$3,120
SU-232 Thermal Sight	\$3,000
Special Operations Craft—Riverine	\$3,600
Mission Helmet Recording System	\$3,200
First Responders Integrated Communications Device—Louisiana National Guard WMD—CST	\$800
Joint Transportable Decontamination System—Small Scale	\$6,800
M291/M295 Skin Decontamination	\$5,600
Chem Bio Protective Shelter	\$1,000
Joint Biological Point Detection System	\$3,500
Joint Biological Stand-off Detection System	\$3,200

TOTAL PROCUREMENT PORK**\$6,521,606****TITLE IV-RESEARCH, DEVELOPMENT, TEST & EVALUATION****Research, Development, Test & Evaluation-Army**

Silicon Carbide Armor Manufacturing Initiative	\$2,400
Perpetually Available and Secure Information Systems	\$4,000
Functionally Integrated Reactive Surface Technologies (FIRST) Program	\$2,400
UT-Tyler Organic Semiconductor Modeling and Simulation	\$1,000
John H. Hopps, Jr. Defense Research Scholars Program	\$2,000
Innovative, Computational Water-borne Pathogen Research for Chemical/Biological Detection	\$1,000
Direct Methanol Fuel Cell- Battery Recharger Program	\$1,600
Combat Mental Health Initiative	\$2,800
Technology Commercialization and Management Network	\$1,600
Cyber Threat Analytics	\$2,400
Activated Nanostructures for De-icing	\$1,200
Document Exploitation for Handwriting Recognition	\$1,000
Flexible Electronics Research Initiative	\$1,000
Global Military Operating Environments	\$1,600
Integrated nanosensors for NBC threat detection	\$1,600
Semiconductor-based Nanotechnology Applications	\$800
Laboratory for Engineered Human Protection	\$1,600
Massively Broadband Wireless Integrated Circuits	\$1,200
Consortium for Bone and Tissue Repair and Regeneration	\$1,000
Nanomaterial Technologies Research	\$2,000
Imaging Research Center	\$900
Burn and Shock Trauma Institute	\$1,600
Hi-tech Eyes for the Battlefield	\$1,000
Low Temperature Vehicle Performance Research	\$800
University Research Initiatives	\$8,000
NAC University Automotive Research Coalitions	\$1,600
Florida Collaborative Development of Advanced Materials for Strategic Applications	\$950
Transparent Nanocomposite Armor	\$300
Development of Enabling Chemical Technologies for Power from Green Sources	\$1,600
Center of Excellence in Industrial Metrology & 3D Imaging Research	\$1,600
Research Support for Nanoscale Sciences and Technologies	\$1,000
Nanotubes Optimized for Lightweight Exceptional Strength Composite Materials	\$2,800
Manufacturing and Industrial Technology Center	\$1,000
Center for Information Assurance	\$800
Detecting and Eradicating Corrosion in Army Vehicles	\$1,200
Electron Microprobe Research	\$1,500
Infotonics Research	\$2,400
Integrated Systems in Sensing, Imaging and Communications	\$800
MEMS antenna for wireless comms/UAVs	\$2,400
Modeling and Analysis of the Response of Structures	\$1,000
Nanoscale Biosensor Research	\$2,500
National Network Security test bed	\$1,600
University-based Automotive Research	\$2,000
Visualization for Training and Simulation in urban terrains	\$1,120
Ultra Lightweight Metallic Armor	\$1,600
Enhanced Holographic Imaging Program	\$1,600
Control System for Laser Powder Deposition	\$400
IED Simulation in Different Soils	\$400
Next Generation Lightweight Drive System for Army Weapons Systems	\$2,000
Novel Extremity Body Armor	\$480
Advanced Materials Development and Manufacturing of Body Armor	\$2,000
Nickel Boron Coating Technology for Army Weapons	\$2,400
Lightweight Motors for the Future Combat System	\$1,600
Project Kryptolite	\$1,200
Advanced Lightweight Transparent Armor for Tactical Wheeled Vehicles and Force Protection	\$800
Future Affordable Multi-utility Materials for the Army Future Combat System	\$6,400
Cold Spray Wear Coating for FCS	\$1,000
Polymer Center of Excellence for Blast-Ballistic Protective Armor	\$2,000
Cutting Tools for Aerospace Materials	\$1,200
Ultra-endurance Coating	\$2,400
3D Woven Ballistic Materials for Future Combat Systems	\$2,000
Advanced Ceramic Surface Engineering for helicopter compressor blades	\$2,400
Complex-shaped armor for soldier torso and extremity protection	\$2,000
Multi-scale modeling of impact resistant materials for body armor	\$1,500
Nanomanufacturing of multifunctional sensors	\$1,600
Nanotechnologies initiative	\$4,000
Protection against IEDs	\$4,000
Titanium Fabrication for Military/Industrial equipment	\$1,350
High Brightness Diode-pumped Fiber Laser	\$1,600
Electromagnetic Geolocation	\$1,000
Urban Warfare Analysis Center	\$2,000
Urban Warfare Knowledge Base	\$1,000
Single Crystal Chemical Vapor Deposition Diamond Thermal Management Elements for high-energy lasers	\$1,000
Terahertz Spectrometer Technology	\$1,600
Network Enabled Combat Identification	\$2,400
Wearable Video Capture System	\$800
Land and Sea Special Operations	\$1,000
One-Step JP-8 Bio Diesel Fuel	\$4,500
Advanced Detection of Explosive Program	\$1,000
Advanced Bonded Diamond for optical applications	\$2,000

Center for Advanced Microelectronics Manufacturing	\$2,000
Integrated Multi-Target Remote-Sensing Technology and Its Applications	\$2,000
Nanophotonic Devices	\$1,600
S31 Technology	\$800
Advanced Structural Condition Monitoring for Diagnostics and Prognostics	\$2,400
Composite Small Main Rotor Blades	\$1,600
Silver Fox and Manta UAS	\$3,200
Electromagnetic Gun Initiative	\$2,000
Integrated Information Technology Policy Analyses Research	\$1,600
Battlefield Connectivity, Multi-Level Secure Networks	\$1,600
Dominant Military operations on urbanized Terrain	\$2,400
Knowledge Integration and Management	\$3,000
Materials Application Research Center	\$1,000
LENS XX Hypervelocity Ground Testing	\$800
Mariah II Hypersonic Wind Tunnel Development	\$4,000
Jam Resistant Technology for INS/GPS Precision	\$1,500
Novel Lightweight Armor Material for Insensitive Munitions Protection of Tactical Missiles	\$1,000
Remote Video Weapon Sight	\$1,000
Missile Aero-propulsion Computer System Modernization	\$6,000
Army Missile and Space Technology Initiative	\$5,000
Unmanned Systems Technology Development	\$1,600
Development and Simulation for Advanced Troop Protection Concepts in Urban Warfare	\$800
Mobile Medic Training Program	\$1,600
Boston University Photonic Center	\$4,000
Development of Logistical Fuel Processors to Meet Army/TARDEC/TACOM Needs	\$2,800
Tactical Metal Fabrication System	\$2,400
Light Utility Vehicle	\$1,000
Institute for Advanced Materials and Manufacturing Strategies	\$2,400
Quick Reaction Advanced Tactical Vehicle Technology	\$2,800
Globally Accessible Manufacturing and Maintenance Activity	\$2,400
DOD Hydrogen PEM Fuel Cell Medium/Heavy Duty Vehicle Demonstration Program	\$3,200
Extreme-Condition Vehicle Tribology for Military Vehicle Technology at Northwestern University	\$1,000
Secure Mobile MANET System	\$1,200
Digital Engine/Hydraulic Valve Actuation Technology	\$800
Advance Digital Hydraulic Hybrid Drive System	\$2,000
Center for Advanced Vehicle Design and Simulations	\$1,600
Hydraulic Hybrids, Advanced Materials, and Multi-fuel Engine Research Program	\$4,000
Spring-suspended Airless Tires for Convoy Protection	\$4,500
Rapid Up-armor Synthesis and Crashworthiness Design for Improved Soldier Survivability	\$1,600
Advanced Manufacture of Lightweight Materials and Components	\$1,600
Automotive Research Equipment Purchase	\$1,600
Military Fuels Research Program	\$1,600
Nano-engineered Multi-functional Transparent Armor	\$800
Skypure - Water from Air	\$1,600
Small Unmanned Aerial Vehicles and Sensors	\$500
Multi Mission Armored Watercraft Project	\$1,200
Advanced Composite Materials Research for Air and Ground Vehicles	\$1,600
Advanced Composite Armor for Force Protection	\$3,000
Beneficial Infrastructure for Rotorcraft Risk Reduction Demonstrations	\$800
Super High Accuracy Range Kit - 105 mm Artillery Technology	\$3,200
Flexible Solar Cell for Man-Portable Generator	\$1,840
Laser-based Explosives & Chem/bio Standoff and Point Detector	\$3,200
Paint Shield for Protecting People from Microbial Threats	\$1,600
Systems Biology Biomarker Molecular Toxicology Initiative	\$1,600
Rapid and Accurate Pathogen Identification/Detection Program	\$1,200
Enhanced Vapor Aeration Capabilities	\$2,400
CZT-based Liquid Explosives Detection Systems	\$1,360
SLEUTH Tungsten Heavy Alloy Penetrator and Warhead Development	\$1,600
Effects Based Operations Decision Support Services	\$800
Renewable Energy Testing Center	\$2,000
Long Range Initiator	\$1,400
Hospital Emergency Planning and Integration Letterkenny Army Depot and Chambersburg Hospital	\$1,600
Advanced Materials and Process for Armament Structures	\$5,600
Remotely Operated Weapons and Sensor Technology	\$3,200
Energetic Formulation and Fabrication	\$4,000
Developmental Mission Integration	\$4,000
Mitigation of Energetics Single Point Failures	\$2,400
Strategic Technology Development and Integration for the Joint Munitions and Lethality Life Cycle Management Command	\$1,000
Green Armaments / RangeSafe	\$2,400
Armament System Engineering and Integration Initiative	\$2,400
Advanced Rarefaction Weapon Engineered System	\$1,600
Rapid Response Force Protection System	\$3,200
Army Center of Excellence in Acoustics	\$3,280
Center for Borane Technology	\$2,000
Development and Demonstration of Multi-use/Urban Operations Joint Training System at Fort Dix	\$2,400
Electroconversion of Energetic Materials	\$5,800
Electrolytic Super-capacitor	\$2,400
Engineered Surfaces for Weapons Life Extension	\$3,000
Exploding Foils Initiators with Nanomaterial-based	\$2,400
Fatigue Odometer for Vehicle Components and Gun Barrels Project Cannon Systems	\$2,640
Research for Army Cannon Systems	\$1,840
Ripsaw Unmanned Ground Vehicle Weaponization	\$1,600
Non-flammable, High-energy density, Low temperature Warrior Battery	\$800
ONAMI Miniature Tactical Energy Systems Development	\$2,500

Advanced Portable Power Institute	\$1,600
Miniature Cooling for Electronic Devices	\$1,000
Revolutionary Self-healing Plastic Enclosure for Military Batteries	\$1,600
Defense Modernization and Sustainment Initiative, Rochester Institute of Technology	\$2,000
Roll-to-Roll Microelectronics Manufacturing in Support of the Flexible Display Initiative	\$1,600
Low Signature Portable Fuel Cell Power System	\$2,800
Mega-capacity Hybrid Chemistry Lithium Primary Portable Batteries	\$1,600
Manufacturing Technology Development of Advanced Components for High Power Solid-State Lasers	\$1,600
Micromachined Switches in support of Transformational Communications Architecture	\$1,600
Lithium Air Metal Battery	\$4,000
Soldier Portable Solid Fuel Hydrogen Generator Cartridge	\$4,000
Silicon Carbide MOSFETs for Electric Power Systems	\$1,600
High-Frequency, High-Power Electronic and Optoelectronic Devices on Aluminum Nitride	\$2,400
Novel Zinc Air Power Sources for Military Applications	\$2,000
Ceramic Membrane - 10(X) More Energy for Battery Systems	\$1,000
Advanced Lithium Carbon Monofluoride Combat Portable Batteries	\$3,920
Advanced Wearable Microcell Power System Process Development	\$2,000
Bio-battery	\$1,200
Soldier Fuel Cell System	\$800
Blast Risk Analysis and Mitigation Application	\$1,600
Advanced, Integrated Portable Power Generation and Charging System	\$2,480
Cogeneration for Enhanced Cooling and Heating of Advanced Tactical Vehicles	\$2,400
Enzyme Biofuel Cell	\$1,000
Improved Energy Density Battery	\$800
Large Format Li-ion Battery	\$800
PEM Fuel Cell Tactical Generators	\$5,000
Portable Hydrogen Generator and Hybrid Power Source	\$1,600
Renewable Energy for Military Applications	\$1,500
Self-powered, lightweight, flexible display unit on a plastic substrate	\$1,600
Thin Lithium Ion Disulfide Primary Batteries	\$2,400
Next Generation Communications System	\$1,000
Enhanced Micro-image Display Technology	\$1,600
Power efficient micro display development for US Army Night Vision	\$2,400
Personal Miniature Thermal Viewer	\$800
Hyperspectral Sensor for UAV Surveillance Targeting	\$1,600
Miniaturized Sensors for Small and Tactical UAVs	\$1,000
Robotics Workforce and Military Curriculum	\$800
Small Business Infrared Materials Manufacturing - Silicon Alternatives	\$1,600
Standoff IED Protection Program	\$3,200
Hawaii Undersea Military Munitions Assessment	\$5,500
High Optempo Performance Soldier Training	\$1,600
LWI Training-based Collaborative Research	\$21,000
Biowaste to Bioenergy: Phase Two	\$1,600
Vanadium Technology Program	\$1,600
Propelling Agent for Slurry Gel	\$1,200
Integrated Lightweight Electronics Shelter	\$1,400
Dynamically Managed Data Dissemination	\$1,000
Advanced 3D Locator Technology	\$3,200
C4ISR Integrated Digital Environmental Service Model	\$2,000
Development of a High Performance Computing System Based on a Modern High Speed Switch Fabric	\$1,000
Research of Advanced Communications Technologies for enhanced secure, mobile, networked communications	\$800
Lightweight Theater Transportable TOC	\$2,400
Intelligent Distributed Command and Control	\$2,000
Portable Flexible Communications Display Devices	\$1,200
Ruggedized Cylinders for Expandable Mobile Shelters	\$4,500
C-RAM Armor Development	\$1,200
Nanocrystalline cement for high strength, rapid curing concrete with improved blast resistance	\$1,600
Airborne Threats	\$1,280
Biologically-inspired Security Infrastructure for Tactical Environments	\$2,000
Geosciences / Atmospheric Research	\$2,000
Chemical and Biological Protective Hangers	\$1,600
Modular Ballistic System for Force Protection	\$4,000
Nano-enabled Ultra High Storage Density Non-volatile Memory for Next Generation Commanders's Digital Assistant	\$1,000
Active and Smart Packaging for Combat Feeding	\$1,000
Advanced Fabric Treatment for Flame Resistant Uniforms	\$1,000
Injection Molded Ceramic Body Armor	\$400
Biosecurity Research for Soldier Food Safety	\$2,000
Carbon Nanotube Armor Protection System	\$1,600
Protective Textile Fabric	\$800
Advanced Bio-engineering for Enhancement of Soldier Survivability	\$1,600
Armed Service Gynecological Cancer Health Program	\$1,600
Biofoam Protein Hydrogel for Battlefield Trauma	\$2,000
Bone Health and Military Medical Readiness Program	\$800
Cancer Prevention through Remote Biological Sensing	\$1,600
Cedars-Sinai Core Imaging Center	\$2,400
Center for Advanced Surgical and Interventional Technology	\$1,000
Center for Vaccine Scale Up Process Research	\$800
Center for Injury Biomechanics	\$3,200
Center for Ophthalmic Innovation	\$2,000
Center for Research on Integrative Medicine for the Military	\$1,000
Center for Resuscitation Research	\$3,000
Cold Spring Harbor Laboratory Women's Cancer Genomics Center	\$3,200
Cone Beam CT Scanners	\$3,200
Copper Air Quality Program	\$1,600

Defense Against Viral Infection	\$1,600
Disposable Unit Dose Drug Pumps for Anesthesia and Antibiotics	\$2,000
Electronic Technology Infrastructure in Support of Military Missions	\$16,000
Epigenetic Disease Research	\$1,600
Fibrin Adhesive Stat Dressing	\$2,000
Impact of Intensive Lifestyle Modification on Chronic Medical Conditions	\$2,000
Improving Musculoskeletal Health and Function	\$1,200
Injury Research Center - Ryder Trauma Center	\$2,800
Integrated Medicine, Communications, Compassion, Chronic Care Program	\$1,600
Mass Decontamination and Biosecurity Initiative	\$350
Medical Image Database Holographic Archiving Library System	\$1,000
Medical Resources Conservation Technology Pilot Energy Cost Control Evaluation	\$1,200
Military Interoperable Digital Hospital Testbed	\$4,000
Molecular Switch Vaccines for Biodefense and Cancer	\$1,600
Nanofabricated Bioartificial Kidney and Bioterrorism	\$1,000
Neuroscience Research Consortium to Study Spinal Cord Injury	\$800
Neutron/Hadron Particle Therapy	\$1,600
Orthopedic Implant Design and Manufacturing for Traumatic Injuries	\$1,600
Oxygen Diffusion Dressings for the accelerated healing of battlefield wounds and burns	\$500
Pain and Neuroscience Center Research Center	\$5,600
Plant-based vaccine research	\$2,000
Prevention of radiation injury by use of statins	\$1,600
Proton therapy	\$2,400
Rapid Vaccine Discovery Technology	\$2,000
Rapid Wound Healing Technology Development Project	\$1,200
Regional NMR Facility	\$1,000
Remote Robotic Teleproctoring to Promote Rapid Surgical Skills Acquisition	\$1,000
Respiratory Biodefense Initiative	\$1,600
Storage Area Network	\$1,000
Synchrotron-based scanning research	\$5,000
Synthetic Malaria Vaccine	\$2,400
Technological Regional Center of Excellence for PTSD	\$1,600
West Nile Virus Vaccine	\$940
Wound Infection Treatment Program	\$1,200
Carbon Nanotube Production	\$1,000
Complementary and Alternative Medicine Research	\$5,000
MRI-DTI Technology to Improve Diagnosis and Treatment of TBI	\$2,500
New Vaccines to Fight Respiratory Infection	\$4,000
Orthopedic Extremity Trauma Research Program	\$4,800
Staph Vaccine	\$2,000
High Pressure Airbean Shelter Cost Reduction Technology Improvements	\$1,440
Flame and Thermal Protection for Individual Soldiers	\$1,600
Remote Environmental Monitoring and Diagnostics in the Perishables Supply Chain	\$4,504
Extended Shelf Life Produce for Remotely Deployed Forces	\$800
Multifunctional Protective Packaging Technology	\$3,000
Ration Packaging materials and Systems for Meals-ready-to-eat	\$4,600
Alternative Energy Research	\$16,000
BioSensor Communicator and Controller System	\$3,000
ChemBio Integrated Materials for Tent Structures	\$1,600
Deployment of Affordable Guided Airdrop System	\$1,600
High-pressure Microwave MRE Procession	\$1,600
Joint Precision Airdrop System Program for Payloads up to 30K lbs	\$3,200
Acellular Matrix Constructs for Military Casualties	\$2,000
Advanced Diagnostic and Therapeutic Digital Technologies	\$1,600
Advanced Non-invasive Glucose Monitoring	\$800
Advanced Proteomics Program	\$1,200
Advanced Regenerative Medicine Skin Cell Therapies, Limb and Digit Treatment	\$1,900
Advanced Regenerative Medicine Development	\$2,000
Advanced Restoration Therapies in Spinal Cord Injuries	\$1,000
Alliance for Nanohealth	\$4,000
ALS Therapy Development for Gulf War Illness Research	\$1,200
Angiogenesis and Tissue Engineering Research	\$1,200
Assistive Technology Research Center at the National Rehabilitation Hospital	\$2,400
National Oncogenomics and Molecular Imaging Center	\$3,000
Battlefield Exercise and Combat Related Spinal Cord Injury Research	\$3,000
Bioceramic Bones for Battlefield Trauma	\$1,600
Blood Safety and Decontamination Technology	\$2,000
Cartledge Infuser	\$1,000
Cellular Therapy for Battlefield Medical Care	\$800
Center for Genetic Origins of Cancer	\$2,400
Center for Integration of Medicine and Innovative Technology	\$8,000
Christian Sarkine Autism Treatment Center	\$2,000
COG/USOC Pediatric Center Center	\$1,600
Composite Tissue Allotransplantation Research and Clinical Program	\$2,000
Cooperative International Neuromuscular Research Group	\$5,200
Dangerous Pathogens DNA Forensics Center	\$2,000
Electronic Medical Records Technology Infrastructure	\$1,200
Feeding Tube for Trauma and Burn Patients	\$500
Health Science Center Rapid Bio-Pathogen Detection Technology	\$4,000
Human Genomics, Molecular Epidemiology and Clinical Diagnostics for Infectious Diseases	\$1,200
Immersive Medical Environment for Distributed Intuitive Consultation	\$1,500
Indiana-Ohio Traumatic Amputation Rehabilitation Research	\$1,000
Integrated Functional Materials Initiative	\$1,000
Joint Medical Simulation Technology Research and Development Center	\$1,280

Maine Institute for Human Genetics	\$500
Medical Information Network Decision Support Tool Development	\$1,000
Medical Surveillance Initiative - Clinical Looking Glass	\$800
Military Biomaterials Institute for Acute and Regenerative Care	\$800
Military Low vision Research	\$1,600
Military Molecular Medicine Initiative	\$12,000
Mobile Integrated Diagnostic and Data Analysis System	\$800
National Bioterrorism Civilian Medical Response Center	\$2,000
National Center of Ophthalmology Training and Education at Willis Eye Health System	\$2,000
National Functional Genomics Center	\$6,000
National Warfighter Health Sustainment Study	\$800
Neural Control of External Devices	\$1,000
Neurofibromatosis Research	\$8,000
Neuroimaging and Neuropsychiatric Trauma in US Warfighters	\$4,000
Neurotoxin Exposure Treatment Research Program	\$20,000
Norfolk State University Center for Systems and Modeling and Simulation	\$2,480
Nursing Clinical Simulation Lab	\$1,000
Obesity and Cancer in the Military Medical Research Program at WRAMC	\$1,600
PBRC Four Tasks to Address Personnel Readiness and Warfighter Performance	\$2,000
Pediatric Brain Tumor and Neurological Disease Institute	\$1,600
Peoria Robotics	\$1,000
Personalized Orthopedic Implants for Combat Trauma Induced Orthopedic Surgery	\$500
Portable Burn Debridement Laser Demonstration	\$2,400
Portable Digital X-ray	\$3,200
Host Pathogen Interaction Study	\$1,000
Prader-Willi Syndrome Research	\$1,500
Proton Beam Therapy	\$8,000
Remote Bio-medical Detector	\$1,000
Gulf War Illness Peer Reviewed Research	\$10,000
Rural Health - CERMUSA	\$1,600
Severe Battlefield Injury Treatment	\$1,600
Spinal Muscular Atrophy Research Program	\$3,200
Technologies for Metabolic Monitoring	\$1,600
Telehealth Access and Infrastructure Expansion	\$1,600
Telepharmacy Robotic Medicine Device Unit	\$1,600
The Institute for the Advancement of Bloodless Medicine	\$1,600
Three Dimensional Projection Environment for Molecular Design and Surgical Simulation	\$1,000
Tracking of Health of Soldiers with advanced implantable nanosensors	\$1,600
National Eye Evaluation and Research Network - Clinical Trial of Orphan Retinal Degenerative Disease	\$2,400
Ultra high speed MEMS electromagnetic cell sorter	\$2,400
Ultra high resolution display for Army medicine	\$3,600
UMDNJ Cancer Initiative	\$2,400
Targeted Radiation Therapy for Cancer Initiative	\$1,000
University of Kentucky Robotic Surgery Research	\$2,000
University of Kentucky Tissue Repair Research	\$1,000
Warfighter Cancer Care Engineering	\$1,200
Wireless Electronic Patient Records, WPIC Personal Information Center	\$2,000
Advanced Lower Limb Prosthesis for Battlefield Amputees	\$3,000
Advanced Medical Training Platform: Madigan Army Medical Center	\$400
Advanced Surface Technologies for Prosthesis Development	\$1,600
Battlefield Tracheal Intubation for Wounded Soldiers	\$1,600
Battlefield Extraction Assist Robot	\$1,600
Brain, Biology, and Machine Applied Research	\$2,000
Burns Outcomes Infrastructure Project	\$2,400
Control of Inflammation and Tissue Repair	\$1,600
Hibernation Genomics	\$1,600
Institute for Regenerative Medicine	\$2,400
Integrated Patient Quality Program	\$1,600
Limb Tissue Regeneration after Battlefield Injuries using Bone Marrow Stem Cells	\$4,000
Medical Modeling and Simulation Through Synthetic Digital Genes	\$1,600
National Biodefense Training	\$1,750
Post-IED Craniofacial Injury Reconstruction	\$1,600
National Functional Genomics Study	\$2,400
Robotic Telesurgery in Combat Environments	\$3,500
Rugged Electronic Textile Vital Signs Monitoring	\$1,600
Surgical Wound Disinfection and Biological Agents	\$1,600
Trauma Care, Research and Training	\$2,000
US Approved Drugs for Malaria and Leishmaniasis in US Military and Civilian Personnel	\$3,400
Drive System Composite Structural Component Risk Reduction Program	\$2,400
Fuel Cells for Mobile Robotic Systems Project	\$2,400
Universal Control Full Authority Digital Engine Control	\$3,000
UAV Resupply BURRO	\$2,000
Night Vision Goggle Compatible Electrostatically Conductive Windscreen Laminates for use on Acrylic/Polycarbonate windscreens on helicopters	\$1,200
Power Dense Transmissions	\$800
Inter Turbine Burner for Turbo Shaft Engine	\$4,000
Technologies for Military Equipment Replenishment	\$4,000
Autonomous Cargo Acquisition for Rotorcraft Unmanned Aerial Vehicles	\$2,400
Alternate Payload bomb Live Unit Munition	\$2,240
Enhanced Rapid Tactical Integration and Fielding of Systems	\$1,600
Excalibur	\$2,400
Helmet Mounted Display / Visor Projection for Army Helicopters	\$1,600
Improved VAROC/UAV compression system development	\$2,400
Joint Technical Data Integration - Wide Intelligent Content Enhancements	\$4,000
Parts-on-Demand for CONUS Operations	\$3,600

Quick-MEDS Automated Release Pod	\$1,600
Vectored Thrust Ducted Propeller Compound Helicopter Advanced Technology Demonstration	\$4,000
Micro Electrical Mechanical Systems Applications for Armor and Munitions	\$2,500
Lightweight Munitions for Surveillance System for Unmanned Air and Ground Vehicles	\$4,000
Reactive Nanocomposite Materials	\$1,000
Advanced Tungsten Penetrators and Ballistic Materials	\$1,600
Nanotechnology Fuze-on-a-Chip	\$3,600
Rapid Prototyping for Special Projects	\$5,000
Rapid Insertion of Development Technologies	\$2,400
Common Smart Submunition	\$1,000
Disruptive Technology Acceleration	\$1,600
Development of Truck-deployed Explosive Containment Vessel	\$1,440
Integrated Aircraft Testbed	\$1,600
Knowledge Driven Manufacturing System	\$1,000
Lightweight Cannon Recoil Reduction	\$800
Raman Chemical Identification System	\$1,600
Tactical Wheeled Vehicle Structures for Improved Survivability and Performance	\$4,000
Special Operations Vehicle - lightweight, Armored, Hybrid, Power Generating, Tactical Vehicle	\$1,600
Tactical Rocket Propelled Grenade Airbag Protection System Enhancement	\$1,600
LEAN Digital Product Development	\$2,000
Networked Reliability and Safety Early Evaluation System	\$1,600
Advance Lithium Iron Phosphate Battery System for Army Combat Hybrid HMMWV and Other Army Vehicle Platforms	\$1,600
Antiballistic Windshield Armor	\$4,000
Center for Tribology and Coatings	\$1,600
Defect-free Commercially Viable Si/C Semiconductor Using Superlattice Technology	\$3,200
On-Board Vehicle Power Management	\$1,600
High Performance Aluminum Structures and Components	\$1,600
Military and Interstate Commercial Truck Component Weight Reduction Program	\$2,400
Hydraulic Hybrid Vehicles for the Tactical Wheeled Fleet	\$1,000
3-D Advanced Battery Technology	\$3,200
High Speed Diesel Combustion	\$3,200
Vehicle Armor Structure Development and Testing for Future Combat Systems and Joint Light Tactical Vehicle	\$1,000
Liquid Desiccant-based Atmospheric Water Generation without Reverse Osmosis	\$900
Diminishing Manufacturing Resources and Material Shortages Case Resolution Program	\$2,000
Battlefield Requirements Management Support System	\$1,000
High Strength, Powder Metal Gears for Vehicle Transmissions	\$2,600
Improved HMMWV Tactical Shelter Project	\$1,000
No Idle System	\$1,000
Advanced Thermal Management System	\$3,200
Advanced Composites Development for Light Weight, Low Cost Transportation Systems Using 3+ Extruder	\$3,200
Tactical Wheeled Vehicle Composite Component Weight Reduction Program	\$2,400
Diesel Hybrid-Electric Utility Vehicles	\$2,000
Secure On-the-Move Information Analysis and Control for Advanced Combat Vehicles	\$1,600
Full Spectrum Close-in Layered Shield for thin skinned vehicles	\$1,600
Active Protection Systems Initiative for the Joint Light Tactical Vehicle	\$3,040
Advanced Lightweight Composite Armor	\$1,600
Advanced Thermal and Oil Management Controls	\$1,600
Armor Ready Composite Cab Transition	\$3,000
Center for Military Vehicle Technologies	\$4,080
Crosshairs Hostile Fire Indication System	\$3,000
Enhanced Director Armor RPG Vehicle Protection System	\$800
Field Deployable Fleet Hydrogen Fueling	\$2,400
Fuel Cell Cost Reduction and Durability Improvements	\$1,600
Ground Forces Readiness Enabler for Advanced Tactical Vehicles	\$1,600
Ground Vehicle Fastening and Joining Research	\$800
Hybrid Engine Development Program for the Tactical Wheeled Vehicle Fleet	\$8,000
Lightweight Structural Composite Armor for Blast and Ballistic Protection	\$2,000
Next Generation Manufacturing Technologies for Defense Supply Chain	\$3,200
Next Generation Non-tactical Vehicle Propulsion	\$1,600
Novel Onboard Hydrogen Storage System Development	\$2,400
Rotary Multi-Fuel Auxiliary Power Unit for M1A1 Abrams Tank	\$2,000
Unmanned Ground Vehicle Initiative	\$12,000
Vehicle Information Manager Display for Drivers	\$800
Vehicle Maintenance and Prognostics System	\$2,560
No-Idle Climate Control for Military Vehicles	\$2,000
Applied Communications and Information Networking	\$4,000
Advanced Wireless Technologies	\$500
Portable Mobile Emergency Broadband Systems	\$3,400
Joint Fires and Effects Training System	\$2,000
Vigilant Auto-ID and Access Control System	\$1,000
Experiential Technologies for Urban Warfare and Disaster Response	\$800
Compact Pulse Power Initiative	\$2,400
Sierra Army Depot Cryofracture/Plasma Arc Transportable System	\$2,400
Cryofracture/Plasma Arc Demilitarization Program	\$2,400
Missile Recycling Capability - Letterkenney Munitions Center	\$6,500
HIV Research	\$8,000
Advanced IED Jammer Research and Development Program	\$2,400
WIZARD - Remotely Controlled IED Countermeasures	\$1,600
Advanced Communications ECM Demonstration	\$9,600
Non-communications ECM Technology Demonstration	\$6,400
US Army Future Force ELINT	\$2,000
DAIRCM/CMWS for Army Helicopters	\$2,800
Waterside Wide Area Tactical Coverage and Homing	\$3,000
Smart Energetics Architecture for Missile Systems	\$1,600

Rapid Response System for Protection of Air and Ground Vehicles	\$4,000
High Fidelity Virtual Simulation and Analysis	\$1,000
Army Virtual Emergency Research Testbed	\$2,400
Perimeter and Maritime Sensor Network	\$2,400
Software Engineering Enhancements	\$3,000
Enhance Landmine and IED Detection Technology	\$1,600
Advanced Demining Technology	\$4,000
Modular Individual Weapon Sight and Low Cost Remote Weapon Station	\$1,000
Polymer Small Arms Production	\$1,600
Hyperspectral Sensors for Improved Force Protection	\$1,600
Advanced Night Vision Sensors	\$2,000
Cable Warning and Obstacle Avoidance System	\$1,200
Hand Launched Unmanned Aerial System High Performance Payload	\$2,400
Enhanced Digital Electronic Night Vision	\$3,200
FCS Short Range Electro Optic Sensor for Stryker	\$3,200
UCXR System	\$3,200
Next Generation FPA Development	\$1,600
Gas Engine Driven Air Conditioning Demonstration	\$1,200
Synthetic Auto Virtual Environment	\$1,600
Defense Applications of Carbonate Fuel Cells	\$1,600
Zero Energy Homes at Ft. Knox, Kentucky	\$1,000
Natural Gas Firetube Boiler Demonstration	\$500
JGES for Improved Combat Situational Awareness	\$4,000
Fireproofing/Corrosion Resistant Coating System for Military Infrastructure	\$1,000
Army Applications of Direct Carbon Fuel Cells	\$1,600
Advanced Tactical Fuels for the Military	\$2,000
Development and Research of Zero Energy Homes at Ft. Campbell	\$2,200
Direct Methanol Fuel Cell Development	\$2,000
Regenerative Fuel Cell System for Silent Camp Operations	\$3,000
Advanced Radar Transceiver Integrated Circuits Development	\$800
Sensor Visualization and Data Fusion	\$1,200
X-band Interferometric Radar	\$2,000
1 Megawatt Molten Carbonate Fuel Cell Demonstration at 29 Palms	\$3,200
Aviation Responsive Maintenance System	\$1,600
Software Lifecycle Affordability Management	\$2,000
Enhanced Multi-mission Radar	\$2,400
HYPER SAR Radar	\$3,200
Shared Vision	\$3,200
Total Quality System for FDA Regulated Activities at U.S. Army Medical Research and Materiel Command	\$800
Lightweight Trauma Module	\$2,400
Future Medical Shelter System - 44/48 Bed Combat Support Hospital	\$6,000
Future Medical Shelter System	\$2,000
Pneumothorax Detection Device	\$1,200
Electroosmotic Pain therapy System	\$1,600
Leishmaniasis Skin Test Antigen	\$1,000
Wireless Medical Monitoring System	\$2,400
Advanced Packaging Solutions for Biotherapeutics	\$800
Plasma Sterilizer	\$3,000
Rotary Valve Pressure Swing Absorption Oxygen Generator	\$1,600
Veterinary Research Manpower Development for Defense	\$500
Military Applications of Medical Grade Chitosan	\$3,000
Life Support for Trauma and Transport	\$3,200
Electronic Combat and Counter Terrorism Training	\$1,600
Next Generation Ice Protection Technologies System for UAVs	\$2,000
Mobile Objects for Net-Centric Operations	\$2,400
Arroyo Center program adjustment	\$4,000
Electro Magnetic Flak Impulse System	\$2,400
Mobile Optical Tracking System	\$1,960
Dugway Testing and Infrastructure Upgrade	\$2,800
Joint Directed Energy Test site	\$4,800
Joint Tactical Network Test Environment	\$2,000
Robotic Manipulators for Explosive Ordnance Disposal	\$480
Rotorcraft Survivability Assessment Facility	\$1,600
Mid-infrared Advanced Chemical Laser (HELSTF)	\$3,000
Sealight Beam Directors (HELSTF)	\$3,000
EQUATE at Army Operational Test Command	\$1,600
Denied GPS	\$2,400
Passive Walking Beam Tracked Platform for Unmanned Ground Vehicles	\$1,000
Knowledge, Tech Sharing Program	\$2,400
Medium Caliber Metal Parts Upgrade	\$2,400
Advanced Cluster Energetics	\$5,000
Defense Metals Technology Center	\$2,000
National Polymer Innovation Center	\$1,000
Domestically Produced Atomized Magnesium for Defense	\$1,000
Depleted Uranium Sensing and Treatment for Removal	\$4,900
Gun Propellant Demilitarization	\$2,400
Thermal Battery Qualification	\$2,900
Smart Machine Platform Initiative	\$3,000
Specialized Compact Automated Mechanical Clearance Platform	\$400
SuperPulse Laser System Development for Turbine Engine Applications	\$1,600
National Center for Defense Manufacturing and Machining	\$1,600
Advanced Materials Processing for Ultra-efficient Power Systems	\$1,000
Aging Weapons Systems Structural Repair	\$1,600
Electrodeposited Coatings Systems	\$1,600

High Temperature Ceramic Manufacturing Technology for Helicopter Rotor Blade Erosion Protection	\$2,000
Improved Manufacturing Process for SAPI	\$3,200
Laser Engineered Net Shaping Qualification for Aging Weapons Systems	\$1,600
Legacy Aerospace Gear Drive Re-engineering Initiative	\$1,000
Next Generation Combat Helmet	\$2,400
<u>Research, Development, Test & Evaluation-Navy</u>	
Blast and Impact Resistant Composite Structures for Navy Ships	\$1,600
Cell-Based Sensors for Chemical Threats	\$1,200
Center for Hetero-Functional Materials	\$2,000
Center for Nanoscience and Nanomaterials	\$1,200
Center for Southeastern Tropical Advanced Remote Sensing	\$2,000
Microwave Ferrites and Multifunctional Integrated Circuits	\$800
National Security Training	\$2,000
Research Infrastructure for the Applied Physics Laboratory	\$3,200
Low Acoustic and Thermal Signature Battlefield Power Source	\$2,000
University Research Initiatives	\$8,000
Energetics Technology Center / Energetics S&T Workforce	\$2,400
Mobile Ad Hoc Data Communications for Unmanned Systems	\$800
ONAMI Nanoelectronics and Nanometrology Initiative	\$2,000
Stand-off Biochemical Agent Detection	\$800
Evaluating ELF Signals in Maritime Environment	\$1,600
Navy Science and Technology Outreach	\$800
Texas Microfactory	\$3,500
Rotational Molded Double-Wall for Unmanned Patrol Boat	\$3,000
Aging Evaluation of Advanced Materials Used for Military Aircraft	\$1,200
Clustered Millimeter Wave Imaging Sensors	\$1,600
High Energy Conventional Energetics (Phase One)	\$5,000
High Power Free Electron Laser Development for Naval Applications	\$2,000
Marine Mammals - Effects of Sound	\$800
Modular Payload Systems	\$2,000
Multifunctional Oxide Materials, Their Application and Devices	\$2,000
Strike Weapon Propulsion	\$2,000
Advanced Propulsion for Gun Launched Projectiles and Missiles	\$800
Combustion Light Gas Gun Projectiles	\$3,200
High Performance Alloy Materials, Steel Castings	\$2,000
Unmanned Aerial Vehicle Fuel Cell Power Source	\$2,000
Advanced Simulation Tools for Aircraft Structures Made of Composite Materials	\$2,000
Critical Composites Technologies for Enabling Special Operations Forces Medium Range Endurance Craft	\$1,000
High Temperature Super Conducting Magnetic Energy Storage	\$400
High Toughness Aluminum Structures	\$1,200
Optical Recognition Protocol for Biologics Detection	\$800
Planar Solid Oxide Fuel Cell System Demonstration at UTC SimCenter	\$3,500
Stabilized Laser Designation Capability	\$1,000
Alternative Energy Research	\$16,000
Force Protection Applied Research	\$2,000
Lithium-Ion Cell Development	\$3,000
Magnetic Refrigeration Technology	\$3,200
PMRF Force Protection Lab	\$2,000
Shipboard Production of Synthetic Logistics and Aviation Fuel	\$1,600
Undersea Perimeter Security Integrated Defenses Environment	\$2,800
High Power Lightweight Zinc-Air Battery	\$1,000
Survivability Program	\$1,500
Warfighter Rapid Awareness Processing Technology for Distributed Operations	\$3,000
Infrared Materials Laboratories	\$2,000
Advanced Panoramic Sensor Systems for UAVs	\$800
All Weather Sense and Avoid for UAVs	\$2,400
Radio Sensor Module	\$1,600
UGV Mobility & Coordination in Joint Urban/Littoral Environments	\$800
M2C2	\$3,200
Theater Undersea Warfare Initiative	\$3,200
Advanced Fouling and Corrosion Control Coatings	\$2,000
Advanced Reinforced Materials and New Materials for Research Aircraft Tires	\$1,000
Atmospheric Water Harvesting	\$1,000
Durability of Composite Materials and Structures	\$1,600
Mast-mounted In-port Video Force Protection Surveillance System	\$1,600
Mission Deployable Surveillance Biometrics	\$1,600
Nanotechnology Engineer and Manufacturing Operation	\$800
Virtual Clinical Learning Lab and Center of Excellence	\$2,400
Amelioration of Military Hearing Loss	\$800
Biosensors for Defense Applications	\$2,000
Digital Directed Manufacturing Project	\$1,280
Miniaturization, Systemization of Semiconducting Metal Oxide	\$800
Nanotechnology Research	\$4,000
Gallium Nitride RF Power Technology	\$2,000
Notre Dame Center for the Engineering of Oxide-Nitride Structures	\$1,600
Reparative Core Medicine	\$1,000
Ultra Stable Coherent Laser	\$800
National Initiatives for Applications of Multifunctional Materials	\$1,600
Autonomous Undersea Vehicle Applications Center	\$1,200
Autonomous Marine Sensors and Networks for Rapid Littoral Assessment	\$1,600
Littoral Battlespace Sensing & Autonomous Underwater Vehicle System Program	\$1,000
Underwater Acoustic Imaging for Maritime Domain Awareness	\$1,000
Autonomous Unmanned Undersea Vehicle Delivery & Communications Demonstration	\$2,000
Galfenol Energy Harvesting	\$1,600

High Power Lithium Battery	\$800
Autonomous Underwater Vehicle Docking and Recharging System	\$2,800
Center for Detection and Neutralization of Electronically Initiated IEDs	\$2,400
Navy Special Warfare Unattended Sensor Network	\$1,600
Electromagnetic Signature Assessment System Using Multiple Autonomous Underwater Vehicles	\$2,000
NMSU Water Security Program	\$800
Virtual Onboard Analyst for Multi-Sensor Mine Detection	\$1,000
Remote Controlled Surveillance Sonar System	\$1,000
Flow Path Analysis Tool	\$1,000
High Speed Anti-radiation Demonstration	\$1,600
Magdalena Ridge Observatory	\$6,500
Advanced Motor Propulsor Development and Testing	\$4,000
Excalibur	\$800
Expeditionary Craft	\$20,000
Information Sharing for ISRTE	\$1,000
Long Wavelength Array	\$2,400
Accelerating Fuel Cells Manufacturability and their Application in the Armed Forces	\$2,750
Advanced Logistics Fuel Reformer for Fuel Cells	\$2,400
Advanced Navy Boat Lift (13,000 - 24,000 lbs.) Research and Development	\$1,000
Agile Port and High Speed Ship Technology	\$2,400
Cryogenic Power System for Unmanned Underwater Vehicles	\$1,000
Detecting IEDs	\$1,000
Direct Motor Driven Waterjet	\$1,600
High Speed Power Node Switching and Control Center	\$1,600
Innovative Methods for Shipbuilding Affordability	\$1,600
Integrated Advanced Communications Terminal	\$1,000
Multi-fuel Combustor for Shipboard Fuel Cells	\$1,600
M65 Bismaleimide Carbon Fiber Prepreg	\$2,400
Pure Hydrogen Supply from Logistic Fuels	\$2,400
Secure Infrastructure Technology Laboratory	\$3,200
Solid State DC Protection System	\$400
Tactical Compact Optical Interrogator	\$1,600
Underground Coordination of Managed Mesh-Networks	\$800
Wide Area Sensor for Force Protection Targeting	\$1,600
Advanced Volume Sensor System	\$1,600
Electrochemical Field-deployable System for Potable Water Generation	\$2,400
Formable Textile for Complex Shaped Aerospace Composites	\$1,600
Future Fuel Non-tactical Vehicle Initiative	\$1,600
Laser Perimeter Awareness System	\$1,500
Manufacturing and Repair Cell	\$4,000
Maritime Mobile Force Protection Program	\$1,600
Single Generator Operations Lithium Ion Battery	\$5,000
Wide-Band Gap Semiconductor Materials	\$1,600
Computer Forensics for Enhanced Maritime Domain Awareness	\$1,000
Maritime Identification for Surveillance Technology	\$1,600
GPS Extension Program	\$50,000
Environmentally-sealed, Ruggedized Avionics Displays	\$1,600
Littoral Combat Ship Networked Tactical Training System	\$1,000
NADEP Cherry Point Center for Vertical Lift - Institute for Maintenance, Science and Technology	\$2,400
National Center for Research on Evaluation, Standards, and Student Testing Skill Set Analysis	\$2,400
Validation of Prognostic and Health Management Systems	\$2,500
Protective Apparel Technology System	\$800
C-Band Active Array Radar System	\$4,000
Pacific Airborne Surveillance and Testing	\$15,000
Craft Integrated Electronic Suite	\$2,400
Dual-Stage Ultra-Reliable Water Filtration Technology Development	\$2,000
MEMS Microdetonator Packaging Technology	\$2,400
Marine Air-Ground Task Force Situational Awareness	\$1,000
Chameleon Chemical Detection Armband	\$2,500
C.W. Bill Young Bone Marrow Donor Recruitment and Research Program	\$31,500
Integrated Warfighter Biodefense Program	\$2,400
Massive Tissue Injury/ Amputation Repair with Composite Tissue Transplantation	\$3,000
Neural Control of External Devices	\$800
Upward Looking Sonar	\$1,000
Deep Water Acoustic Detection System	\$3,200
Joint Explosive Ordnance Disposal Diver Situational Awareness System	\$800
Gateway System	\$1,600
Naval Observatory Joint Milli-Arcsecond Pathfinder Survey Program	\$4,000
Semi-Submersible UUV	\$1,000
Equipment Life Extension Project	\$1,200
Intelligent Autonomy Technology Transition Program	\$2,000
Modular Advanced Helmet Vision System	\$1,600
Silver Fox UAS	\$800
Smart Visor	\$1,600
Technology Collaboration for Aerospace Engineering Programs	\$1,600
Unmanned Force Augmentation System	\$2,400
Intelligence Gathering Uninhabited System	\$1,600
Unmanned Aircraft Systems Optimization Technologies	\$2,800
Marine Mammal Awareness, Alert and Response Systems	\$2,400
Tactical E-Field Buoy Development Program	\$1,600
Anti-Torpedo Torpedo	\$2,400
Anti-Submarine Warfare Enhancements	\$8,000
Sensor Arrays for Multiple Applications	\$1,500
Carrier Plant Automation and Manning Reduction	\$800

Improved Corrosion Protection for EMALS	\$2,000
Quiet Interlude Processing System Integration	\$800
Adv Combatants Material Rsch	\$1,600
Adv Fluid Controls for Shipboard Applications	\$2,400
Adv Repair Technology for Expeditionary Navy	\$800
Air Gun Ship Shock Testing of Naval Vessels	\$1,600
Ckt Breaker for navy Shipboard Power Dist. Sys	\$600
High Efficiency Quiet Elec Drive	\$1,600
High Temp Superconductor Navy Propulsion Motor for DDG-1000	\$2,000
Integrated Power System Converter	\$800
Integrated Condition Assessment System (ICAS)	\$1,600
Naval Flywheel Energy Storage System	\$600
Smart Valve	\$2,400
Shipboard Wireless Maintenance Assistant	\$1,200
Adv Steam Turbine	\$4,000
DDG-51 Homopolar Hybrid Drive	\$5,500
MTTC/IPI and National Surface Treatment Center	\$3,200
Power Conversion Eqmt for High Density Power	\$800
Propulsor Manufacturing Technology	\$2,400
HTS AC Synchronous Propulsion Motor	\$2,000
Small business Technology Insertion	\$20,000
Improved Surface Vessel Torpedo Launcher	\$1,600
Acoustic materials for integral Bow Conformal Array	\$1,000
Navy Submarine Hyd Oil Recycling and Waste Reduction	\$1,000
Low Cost laser Module Assy for the Navy's Acoustic Sensors	\$1,000
Twinline Thinline Submarine Towed Array	\$3,200
CISRT Enabling Materials Technology	\$2,400
Controllable Shock Absorber for Adv Submarines	\$1,800
Organic Submarine Airborne ISRT Demonstration	\$2,800
Submarine Artificial Intel-based combat system kernal	\$2,400
Undersea Launched Missile Study	\$5,000
High Awareness Littoral Observing Sensor	\$1,000
Submarine Targeting Agile Array with Rapid Zooming	\$1,320
Adv Video Processing Technologies	\$1,000
SCOUT MK3	\$1,000
Autonomous Maritime Navigation Program	\$4,800
Low Signature Modular Weapon Platform	\$2,400
Common Composite Island concept	\$2,700
Support for Naval Ship Hydrodynamic Facilities	\$5,000
Anti-Submarine Warfare Contact Management Mission Planning	\$2,800
LCS Mission Package Enterprise	\$4,000
Remote multi-Mission Vehicle ASW Mission Module for LCS	\$2,400
New payloads and sensors USV System	\$1,600
Open Architecture Maintenance Free Operating Period	\$2,400
Automated Test and Re-Test	\$1,600
Cooperative Engagement Capability	\$4,000
Puget Sound Anoxia Rsch	\$1,200
Ocean Thermal Energy Conversion	\$800
Adv Photovoltaic Matl Integration Development	\$950
Kinetic Hydropower System Turbine	\$3,200
Swimmer Detection Sonar Network	\$1,200
Def Int Tech Data Ctr	\$1,200
Natl Item ID Number Validation and correction	\$1,600
Unique ID of Tangible Items	\$8,500
Highly Integrated Optical Interconnects	\$1,600
Multi-Colored Infrared Sensors	\$3,200
Affordable Weapon System	\$15,200
Modular Adv Ultra Light Weapons System Prototype Mount	\$4,000
Explosives Safety Rvw	\$1,600
Spherical Airship R&D	\$1,600
High Power Microwave System for Vehicle Immobilization	\$1,000
Global Personal Locator Beacon	\$1,600
Project Athena	\$6,400
Lasers for Navy applications	\$2,000
Assault Directed IRCM	\$4,000
High Power Fiber Laser	\$1,600
Adv Measurement Standards Development	\$3,200
Agent Based Expeditionary Security Sys for AT Afloat	\$800
Wireless Imaging and Sensor Network	\$1,000
Dist Multi-Pltfrm Sensor Support System	\$2,500
Deep Extended Echo Ranging	\$800
Next Gen EW Simulator	\$1,600
EA-6B TWT Driver Mod	\$1,000
Pt Mugu Elex Warfare Lab Upgrade	\$2,000
Floating Area Network	\$4,000
SmartLink	\$1,600
Wireless maritime Inspection System	\$1,000
Permanent Magnet Motor	\$9,000
Adv Wireless Encryption Module	\$2,400
Bio/Nano-MEMS for Def Apps	\$3,200
Aegis CIC	\$2,400
Smart Int Data Environment	\$1,000
AMCM Open Architecture	\$2,400
Sustainability of SPS-49 Signal Data Processor	\$3,600

Adv Intercept & Ranging Sys	\$3,200
Improved Submarine Thin Line Towed Array Handler	\$3,200
Environmentally Sealed Display for Tac Operations Centers	\$1,600
Oxygen Generator	\$800
Small Business Technology Insertion	\$20,000
Combat Control For Dist Netted Systems	\$1,600
Submarine Elex Chart updates	\$2,700
Submarine Maint Auto and Comm Sys	\$1,600
Auto Submarine C&C Ctr	\$1,600
Auto Fiber Optic Manufacturing	\$1,000
JSOW R&D	\$4,800
Expeditionary Swimmer Def Sys	\$1,600
Phalanx Next Gen	\$6,800
Adv RAM Tiles	\$2,000
EW Concept Demonstrator	\$800
Medical Development	\$35,200
JSF Production Affordability Initiatives and Information Assurance	\$100,000
Elex Portal for Analysis and Surveillance	\$2,400
Oblique Imaging and S/W Tool	\$1,000
CBM for Shipyard Facilities	\$3,000
Natl Terrorism Preparedness Training	\$2,400
SPAWAR Sys Center Information Tech Ctr	\$10,000
CMB Enabling Tech	\$2,700
Digitization of NCIS	\$6,400
Integration of Logistics Info for Knowledge Projection	\$1,800
MilAir Loss of Control Training Rsch	\$1,000
SSEE Incr E	\$1,600
Network Expansion & Int of Navy Ranges	\$4,100
Commercialization of Adv Tech	\$2,400
Int Man Enterprise	\$1,600
HTDV	\$10,000
Naval Avn Tech Exploration Initiative	\$800
Pac-Based Joint Info Tech Ctr	\$6,500
AIDC Solution Ctr	\$2,800
USMC Log Analysis & Opt	\$1,200
Individual Chem Alert	\$800
LINAC Facility	\$3,000
USN Mobile CAS Pilot	\$800
Airborne Tactical Server	\$2,400
FA-18 Roadmap Upgrade	\$2,400
FA-18 Tac Ops Trainer	\$1,600
NAVAIR CPI TM Conversion	\$1,600
VOIP Telephony	\$1,000
Precision Terrain Aided Nav	\$3,200
TWCS	\$1,280
Auto Anti-submarine Vertical Beam Array	\$1,000
Low Cost Expendable FO Sensor Array	\$1,000
Dist maritime Surveillance Sys	\$1,600
ASW Training interoperability	\$1,200
TSTS Support Sys	\$1,600
Adv Composite Materials for Acoustic Window	\$6,400
LORAN SAS for ASW	\$800
Dig Data for Wep Sys Readiness	\$800
MK48 Torp Post Launch Comm	\$1,600
Age Exploration and Vibration Analysis	\$2,000
Adv Avionics Miniaturization	\$1,000
LW Composite structure development	\$1,200
Aviation Improvements – LO A/C Sealants	\$1,600
Rotor Blade Protection	\$800
Real Time Weight and Balance Measure for C-130	\$3,200
Arc Fault Ckt Brkr	\$800
Rapid rpr UV curable structural adhesives	\$4,000
Structural Life Tracking	\$1,600
FA18 Avionics Ground Support Sys	\$1,600
Wireless Sensors for Navy aircraft	\$1,600
Battlefield Sensor Netting	\$2,400
STRIKE R&D (CIHEP)	\$2,000
Performance Enhancements for IA and IS	\$6,100
EFSS	\$4,400
Tractable Durable Net Complex Armor	\$1,600
Ultrasonic Consolidation of Embedded Sensors	\$1,200
Secure Data Sharing	\$1,200
Surf Eagle Open Source Environmental Intel	\$3,600
FPPA	\$1,600
JIST-NET	\$1,000
TSAT Upgrade to NMT	\$1,600
Tactical Key Loader	\$3,200
Universal Description, Discovery and Integration	\$2,800
Coastal Airship Surv Demo	\$1,600
Micromunitions Interface for Tac Unmanned Sys	\$4,000
UAS OA Migration	\$3,000
Adv Airship Flying Lab	\$2,000
Skybus 80k and 13k LTA-UAS Multirole Tech	\$1,800
EP-3E Cooling Sys Upgrade	\$5,040

FEATHAR	\$4,000
Collective Aperture Multi-Band Sensor Sys	\$1,200
DCGS-AFATDS Interoperability	\$1,000
Maritime Intel Integration for Shared Situational Awareness	\$1,000
IAWD for Navy Surface Ships	\$1,000
Shaft Manufacturing Improvement Project	\$1,000
ETAC	\$1,200
NSRP	\$12,000
Navy AID Eng Support	\$800
<u>Research, Defense, Test and Evaluation-Air Force</u>	
Chabot Space and Science Center	\$800
Process Integrated Mechanism for Human-Computer Collaboration and Coordination	\$1,000
Fully-Integrated Solar-Powered Interior Lighting	\$1,600
Nanotechnology-based Biosensors and Biothreat Detectors	\$2,000
Hybrid Materials for Thermal Management in Thin Films and Bulk Composites	\$1,600
Coal Transformation Laboratory	\$1,000
Development and Validation of Advanced Design Technologies for Hypersonic Research	\$2,400
High Energy Laser for Detection, Inspection and Non-destructive Testing	\$5,000
UNR-Millimeter Wave-Based Fatigue Countermeasure Technology	\$700
Battlespace: Reducing Military Decision Cycles	\$2,400
High Temperature Hydrogen Energy Production Facility	\$1,000
Partnership in Innovative Preparation for Educators and Students and the Space Education Consortium	\$1,600
Secure Grids for Network Centric Operations	\$2,400
University Research Initiatives	\$8,000
Frank R. Seaver Science and Engineering complex	\$1,000
Tricorder Detector	\$1,200
National Center for Integrated Civilian-Military Domestic Disaster Medical Response (Yale New Haven Health System)	\$2,000
Comprehensive Clinical Phenotyping and Genetic Mapping for the Discovery of Autism Susceptibility Gene	\$1,500
Chrome Free Environmentally Friendly Corrosion Protection for Aircraft	\$1,600
Free Electron Laser Capabilities for Aerospace Microfabrication	\$1,600
Intelligent Carbon Nanotube Based Computer Devices for Space Applications	\$4,800
Aircraft Active Corrosion Protective Compounds	\$1,000
Accelerated Insertion of Advanced Materials and Certification for Military Aircraft Structure Material	\$2,800
Blast Resistant Concrete Products	\$1,600
Large Area, APVT Materials Development for High Power Devices	\$1,600
Plasma-sphere array for Flexible Electronics	\$1,600
Advanced Carbon Fiber Research and Testing Initiative	\$3,000
Institute for Science and Engineering Simulation / Aircraft Fatigue Modeling and Simulation	\$2,500
Science for Sustainment Initiative to Improve Mission	\$1,600
ONAMI Safer Nanomaterials and Nanomanufacturing	\$3,200
Pennsylvania Nanomaterials Commercialization Center	\$1,600
High Temperature Aerogel Materials for Global Strike Vehicles	\$1,600
Polymer Nanocomposites for Energy Storage and Pulsed Power	\$800
Carbon Nanomaterials for Advanced Aerospace Applications, AQW Rice University	\$1,600
University of Houston Consortium for Nanomaterials for Aerospace Commerce and Technology	\$2,400
Gallium Nitride RF Power Technology	\$1,600
Life Shield Blast Resistant Panels	\$1,000
Advanced Aerospace Carbon Foam Heat Exchangers	\$1,600
Advanced Engineered Non-Linear Optical Materials for Critical Wavelengths	\$960
Air Force Minority Leaders Program	\$6,000
Durable Hybrid Coatings for Aircraft Systems	\$1,200
Fire and Blast Resistant Materials for Force Protection	\$1,600
Nanocomposites for Lightning Protection of Composite Airframe Structures	\$1,600
Nanotechnology Research	\$5,000
Polymer Stress and Sensor Damage Sensors for Composites	\$2,900
Cognitive UAV	\$1,000
Modeling and Simulation for Rapid Integration and Technology Evaluation	\$1,000
Advancement of Intelligent Aerospace Systems for the U.S. Air Force	\$2,000
Characterization of Airborne Environment for Tactical Lasers	\$4,000
Single-mode Optical Connectors for Advanced Air Vehicles	\$800
Warfighter Pocket XP - Next Gen	\$1,600
Imaging Tools for Human Performance Enhancement and Diagnostics	\$1,600
Ubiquitous RFID Chem/Bio Detection	\$800
Component Object Model Attitude Control System Simulation/Trainer	\$4,000
Solid Electrolyte Oxygen Sensor	\$3,200
Development & Testing of Advanced Paraffin-based Hybrid Rockets for Space Applications	\$1,600
Center for Solar Electricity and Hydrogen	\$2,400
LOX/Methane Cooled Upper Stage Rocket Engine	\$1,000
Modified F-22 Maintenance - Free Nickel Cadmium Aircraft Batteries for the F-16	\$1,400
Advanced Vehicle and Propulsion Center	\$1,600
Integrated Electrical Starter / Generator	\$2,000
Hydrocarbon Boost Technology Demonstrator	\$1,200
Thermal and Energy Management for Aerospace	\$3,500
WASH Oxygen Sensor and Cell Level Battery Controller	\$1,200
Active Combustion Control System for Military Aircraft	\$3,500
Advanced Fuel Cell Based Power System for Small UAVs	\$800
Alternative Energy Research	\$10,000
High Energy Superior Lithium Battery Technology	\$6,000
VDVP for UAV/UCAV Aircraft Engines	\$1,600
Optical Maximum Entropy Verification	\$800
Sensor Fusion	\$1,600
Optically Pumped Atomic Laser for Defense	\$3,200
Center for Advanced Sensor and Communications Antennas	\$1,000
Low Voltage, Wideband Electro-Optic Polymer Modulator	\$2,400

Super-Resolution Sensor System	\$5,000
Integrated Propulsion Analysis Tool	\$1,600
Advanced Modular Avionics for Operationally Responsive Space Use	\$2,000
Multicontinuum Technology for Space Structures	\$2,000
Mission Design and Analysis Tool	\$500
Shielding Rocket Payloads	\$350
Deployable Structure Systems for Space	\$1,600
Field Programmable Gate Arrays	\$1,600
HAARP	\$3,200
Microsatellite Target System	\$1,600
Nuclear Test Seismic Research	\$2,400
Reconfigurable Electronics and Non-Volatile Memory Research	\$2,000
Advanced Nanotube Micro-Munition Weapon Technology Initiative	\$1,200
Ceramics for Next-Generation Tactical Laser Systems	\$2,400
Compact Laser Terminal for Airborne Network Centric Warfare	\$2,000
Adaptive Optics Lasercom	\$1,600
Cyber Attack Mitigation and Exploitation Laboratory II	\$1,900
Continuous Integrated Vehicle Health Monitoring System	\$1,200
Encapsulated Ballistic Protection System	\$1,000
Coated Field Repair (2K Gun)	\$1,000
National Aerospace Leadership Initiative	\$16,000
EMI Grid Fabrication Technology	\$1,600
Aircraft Evaluation Readiness Initiative	\$2,000
Hybrid Bearings	\$2,400
Metals Affordability Initiative	\$5,000
Strategic Bio-fuels Supply Program	\$1,600
Materials Integrity Management Research	\$500
TacNode - Tactical Airborne Communications Node	\$3,200
Active UAV Phenomenology & ART Technology Transition	\$4,000
Moving Target Strike	\$1,600
Advance Aerospace Titanium Structures Initiative	\$1,600
Big Antennas Small Structures Efficient Tactical (BASSET) UAV	\$800
Field Renewable Energy System Hybrids (FRESH) Li Ion Battery Program	\$1,000
Versatile Affordable Advanced Turbine Engine (VAATE) - Small Turbofan	\$3,600
Ceramic Matrix Composite Airfoil Capability Enhancements	\$1,000
Texas Research Institute for Environmental Studies	\$1,200
Bi-Polar Wafer-cell Nickel Metal Hydride Battery	\$2,000
Family of Motors Capability Demonstration	\$6,400
Silicon Carbide Power Electronics for More Electric Aircraft	\$5,500
Versatile Affordable Advanced Turbine Engine, High Speed Turbine Engine Demonstrator	\$4,800
Variable Transmittance Visor	\$1,000
Virtual Medical Trainer	\$2,400
Battlefield Automatic Life Status Monitor	\$1,600
Low Cost / Improved Performance for Helmet Display and Life Support Technologies	\$2,700
Water Purification with Fused Carbon Nanotube Nanostructured Material	\$2,400
Program Engineering Interoperability Framework	\$1,600
Enterprise Service for Reach Back Capabilities	\$3,000
MEDSTARS Integration with Global Combat Support System	\$1,600
Airborne Web Services Spiral 5	\$800
Distributed Mission Interoperability Toolkit	\$4,000
ASSET eWing and Data Fusion Technology Integration Base	\$4,000
Global Awareness Presentation Services	\$2,400
FPS-16 Radar Mobilization Upgrade	\$1,600
Holloman High Speed Test Track	\$3,600
Internal Base Facility Energy Independence - Wind/Turbine	\$1,000
Base Facility Energy Independence	\$3,200
MAICE (Modeling and Simulation)	\$1,600
Research Visualization Facility	\$1,200
Alternative Energy Fuel Cell Power Generation	\$2,000
Strategic Airlift Aircraft Availability Improvements	\$2,800
Heavy Duty Hybrid Electric Vehicle	\$2,000
Alternate Carbon Stationary Fuel Cell Demonstrator	\$3,200
WR-ALC Special Operations Forces	\$3,000
Alternative Energy Research	\$10,000
<u>Research, Development, Test and Evaluation, Defense-Wide</u>	
Combat Effective Facial Armor Research and Development	\$1,200
Duel Use Technologies for Bio-defense	\$1,500
University Strategic Partnership	\$3,200
Nanoscience Nanotechnology Institute	\$2,400
Illinois Institute of Technology	\$1,040
Nanocrystal Source Display	\$1,200
Bacterial Ghost Influenza Vaccine Development	\$1,600
Advanced Research to further National Security Goals	\$1,000
Advanced Nano-Engineered Composites	\$4,000
Advanced Photonic Composites Research	\$3,253
Alternative Futures at the Range Complex Level for Southwest	\$1,000
Focus Center Government-Industry Consortia	\$8,000
Nanotechnology Initiative at Shaw University	\$1,000
New York Structural Biology Center	\$1,600
Integrated Cryo-cooled High Powered Density Systems	\$1,600
High Powered Density Research	\$2,000
DEPSCoR program adjustment	\$11,200
Chem Bio Defense Initiative	\$4,000
Detection of Biological Agents in Water	\$2,000

Weaponized Pathogens	\$1,000
Portable Continuous Monitor for Biodetection	\$1,600
Rapid Response Database System	\$1,000
Initiative for Defense Against Bio-Warfare and Bio-Terrorism	\$1,600
Garden State Cancer Center	\$800
DNA Safeguard	\$1,360
Multisignal Nanosensors for Detection of IEDs	\$2,000
Photoscrub	\$1,600
Medical Free Electron Laser	\$2,400
Instrument Program for Tribal Colleges and Universities	\$2,640
Historically Black Colleges and Universities	\$20,000
Intelligence Center for Telecommunications and Net-Security	\$1,120
Software Assurance Education and Research	\$1,000
Biomedical Engineering Initiative	\$500
Chem Bio Defense Initiative	\$8,000
Point of Care Diagnostic System	\$1,000
Biosecurity Development and Management Program	\$800
Virus Mutation and Virus Transfer from Humans to Animals	\$3,000
Mixed Oxidants for Chemical and Biological Decontamination	\$4,000
Self Decontamination Polymer System for Chemical and Bio Warfare Agents	\$5,600
Rapid Forensic Evaluation of Microbes in Bio Defense	\$1,000
Countermeasures to Chem/Bio Control Rapid Response	\$4,000
Multifunctional Particles for Defeating CBWA	\$1,000
HyperAccute Vaccine Development	\$1,480
Antibody-based Therapeutic against Smallpox	\$1,000
Chem/Bio infrared Detection System	\$1,600
Rapid Detection of Bacterial Pathogens	\$1,600
Research on a Molecular Approach to HAZMAT Decon	\$1,200
Bio/Chem Threats	\$1,000
Novel Biowarfare Agent Identification and Treatment	\$3,200
Optinet Sensor System	\$800
CEROS	\$10,000
Economic Production of Coal-to-liquid fuels	\$2,400
Reduce Environmental Impact of coal-to-liquid fuels	\$2,400
Strategic Materials and Silicon Carbide Optics	\$5,000
3-D Technology for Sensor Systems	\$2,400
Fissile Material Detection Research	\$21,200
Simulated Virtual Prototype Environmental Development	\$1,000
Comprehensive National Incident Management System	\$2,400
Center for Nonproliferation Studies	\$1,600
Remote Sighting Systems	\$800
Protector-DACS	\$2,400
National Center for Blast Mitigation and Protection	\$1,000
Pulsed Energy Projectile	\$1,000
SOF Net-Centric Sharing and Storage	\$1,000
Nickel Boron Metal Coating Technology	\$1,600
Athena Threat Signal Locator	\$1,000
Advanced Multi-Purpose Microdisplay	\$1,000
Flashlight Soldier to Soldier Combat ID System	\$2,000
Improved Sensor Systems	\$2,000
Foliage Penetrating Recon and Surveillance System	\$2,000
Aerial Canopy Sensor Delivery Systems	\$1,000
BIGFOOT Tag Airborne Receiver	\$4,000
Extended Lifetime Radioisotope Batteries	\$800
Day Night Wide Area Surveillance System	\$1,600
Automated Language Translation	\$2,400
Authentication Enrollment and ID System	\$2,000
CT-QAS	\$1,200
DICAST System Enhancement	\$2,400
Scenario and Incident Based Port Security Training	\$800
EDIT Advanced Shallow Subsurface Tunnel and Cache Detection	\$800
DIFAR Sensor System	\$1,600
Roll-on Roll-off Recon Pallet Improvement	\$4,800
Facility Securing Using Tactical Surveys	\$3,000
Law Enforcement Test Bed for Counter Insurgency Tactics	\$1,600
Port and Hull Security 3D	\$2,400
Comprehensive Maritime Domain Awareness	\$4,500
Accelerated DT&E of Affordable Robust UGVs	\$800
Contextual Arabic Blog and Slang Analysis Program	\$1,000
Advanced Multi-Sensor ISR Testbed	\$1,600
Autonomous Intrusion Surveillance Sensor	\$2,000
BOPPER	\$1,600
R&D to Increase Survivability of Personnel Exposed to IED Attacks	\$2,400
Robotic Mobility Platform Systems	\$800
GuARDS	\$880
Ruggedized Mobile Secure 1000	\$800
Multi-Mission Advanced Sensor System	\$3,000
Detection and ID Systems	\$1,600
Stand-Off Chemical Detector for SOF Venture	\$1,600
AELED IED Detection for Naval UAVs	\$1,000
Research for Nuclear Detection, Counter Proliferation and Imaging	\$2,000
Aluminum Nitride for Substrates and Devices	\$1,600
Massively Parallel Optical Interconnects for Microsatellite Applications	\$3,200
Multi-Tracking Optical Sensor-Array Tracking	\$3,200

Net-Centric Airborne Defense Element	\$4,800
Buoyancy Assisted Lift Air Vehicle	\$2,000
Chem Bio Initiative	\$8,000
Develop and Test Environmentally Safe Biocides for Biodefense	\$500
Fraunhofer USA Center for Molecular Biology	\$1,000
Hand held Nanotechnology Enabled Bio-warfare Agent ID System	\$2,400
Long range Stand off System for Detection of Biological Materials	\$1,120
Myeloid Progenitor for Acute Radiation Syndrome	\$2,400
Carbon Nanotube Chemical Detector	\$1,000
Surface Enhanced infrared Detection of Threats	\$2,640
Regenerative Chemical biological Filtration Systems	\$2,500
Small Accelerators and Detection Systems for Homeland Defense and Security Applications	\$1,600
Total Perimeter Surveillance	\$1,600
Warfighter Personnel Decontamination	\$800
Acinetobacter Baumannii Research	\$2,000
Antioxidant Micronutrient Countermeasures	\$1,000
Anthrax Monoclonal Antibody Program	\$1,600
UCLA High Speed/Volume Lab Network	\$4,000
PCO Demonstration for Water Reuse	\$2,000
Environmental Bioterrorism Detection Program	\$2,000
Improved Chem/Bio and Radiological Filters	\$1,600
Mobile Rapid Response Preparedness Center	\$4,000
Mobile Real-Time non-specific Viral Agent Detector	\$1,500
Spectrometer for WMD Civil Support Teams	\$800
NIDS	\$3,000
Plant Vaccine Development	\$3,000
Portable Rapid Bacterial Warfare Detection Unit	\$4,400
Reactive Coatings Enhanced to Resist Contamination	\$1,760
Strategic Bioterrorism Response for Battlefield Survival	\$1,440
Sensor Suite Development and Demonstration	\$1,600
Chem Warfare Agent Fate Model Verification	\$1,000
Advanced Medical Response Training Program	\$1,600
Multipurpose Biodefense Immunoarray	\$1,000
Joint Technology Insertion and Accelerated System Integration for Electronic Warfare	\$3,200
Distribution Network Switching Joint Capability Demonstration	\$1,600
Hardware Encryption Technology Program	\$1,600
Louisiana Command and Control, Interoperable Communication	\$2,000
Simultaneous Field Radiation Technology	\$3,100
Spartan Advanced Composite Technology	\$1,600
Variable Distance Iris Identification on the Move	\$3,200
Light Weight Composite Brakes for Armored Wheeled Vehicles	\$800
Claflin University Detection and Remediation Response to Chem/Bio weapons	\$2,000
Disruptive Manufacturing Technology Initiative	\$8,000
High Performance Manufacturing Technology Initiative	\$8,000
Joint Robotics Initiative	\$4,000
Warrior Unmanned Ground Vehicle	\$4,000
ASSET	\$2,000
E/CIT	\$800
Parts Backorder Reduction	\$2,400
Advanced Mobile Microgrid System	\$4,400
Accelerate Defense Supply Chain	\$1,600
Biofuels Program	\$1,600
Defense Fuelcell Locomotive	\$2,400
High Energy Battery for UAV	\$2,080
Hydrogen Storage Program	\$5,000
New England Manufacturing Supply Chain Initiative	\$1,600
STAR4D	\$1,600
Vehicle Fuel Cell and Hydrogen Logistics Program	\$8,000
Dendrimer Enhanced Water Remediation Research	\$800
Agile JTRS Integrated Circuits	\$1,600
Defense Command Integration Center	\$1,000
End to End Semi Fab Alpha Tool	\$1,600
Semi Conductor Photomask Tech Initiative	\$2,400
High Specific Energy Rechargeable Battery	\$1,600
Superlattice Nanotechnology	\$1,600
Spintronics Memory Storage Technology	\$2,400
3D Electronics	\$1,000
Carbon Nanotube Thin Film Near Infrared Detector	\$1,000
Next Generation Supercomputer IA Prototype for NRL	\$4,500
Advanced Dynamic Optics Program	\$1,200
Foliage Penetrating Acoustically Cued Imagery Sensor	\$2,400
Advanced Surface Radar Technologies	\$5,500
Demonstrations T&E of Mini-Sensors	\$4,800
Transponders	\$3,000
Feature Size Migration at DMEA Arms Foundry	\$4,000
Networked Micro-Sensors Technology Test bed	\$1,600
Rapid Prototyping	\$3,600
Self Sensing Array container Sensor System	\$1,440
Computing and nano-scale Electronic Processing	\$1,200
Mitech Extension Program	\$1,500
Ultra Low Power Electronics for Special Purpose Computers	\$1,040
Capability/Integration Evaluation	\$1,600
Data Intensive, High Performance Computing-Phase 4	\$1,500
ARSC	\$4,000

High Performance Computational Design of Novel Materials	\$1,520
Simulation Research	\$1,600
High Performance Computing Infrastructure Enhancement	\$5,600
MHPCC	\$5,000
Semi Autonomous Robotic Manipulation and Sensing	\$1,200
Counter Sniper Protection System Turret	\$1,120
Small Craft Integrated Common Operational Picture	\$800
Unmanned Aerial Vehicles	\$1,600
Cultural and Societal Modeling & Simulation	\$2,560
Joint Urban Fires Prototype	\$1,200
Joint Experimentation Visualization	\$1,600
East Coast Asymmetric Warfare Initiative	\$800
First Link	\$1,600
DOD Springboard	\$2,000
Joint Robotics Initiative	\$4,000
Robotics Program	\$8,000
Advanced SAM Hardware Simulator Development	\$4,000
Joint Gulf Range Complex Test and Training Interdependency	\$1,000
USOVP	\$4,000
Range Tactical Data Link and Relay Capability	\$2,400
Pacific Region Interoperability Test and Evaluation Capability	\$3,000
Directed Energy Systems for UAV Payloads	\$1,000
Castings for Improved Defense Readiness	\$2,000
Corrosion Resistant Ultra-High Strength Steel for Landing Gear	\$1,600
Military High Pressure Packaging Project	\$3,200
Northwest Manufacturing Initiative	\$1,000
Technology Roadmapping and Strategic Investment	\$1,600
Advanced Microcircuit Emulation	\$3,200
Industrial Base Initiative Fund	\$24,000
Small Low Cost Reconnaissance Aircraft	\$1,800
Micromachined Switches for Next Generation Modular Satellites	\$2,400
Microsatellite Serial Manufacturing	\$1,600
Satellite Coherent Optical Receiver (SCORE)	\$2,000
Radially Segmented Launch Vehicle (RSLV) Risk Reduction Program	\$1,600
High Accuracy Network Determination Systems (HANDS)	\$5,200
Conventional Strike Missiles Capability Demonstration	\$4,800
Operationally Responsive Space	\$6,100
Low Earth Orbit Nanosatellite Integrated Defense Autonomous Systems	\$4,000
BMRST	\$4,000
Arrow Co-Production	\$25,000
Joint Short Range Ballistic Missiles Program	\$20,000
Ballistic Missile Defense System Interceptor	\$120,000
Test Range Support and Upgrades	\$40,000
Joint National Integration Center	\$2,000
TOTAL OF PORK IN RESEARCH, DEVELOPMENT, TEST & EVALUATION	\$3,489,007
<u>TITLE VI-OTHER DEPARTMENT OF DEFENSE PROGRAMS</u>	
<u>Other DOD Appropriations</u>	
AFIP Record Digitization Program	\$20,000
Epidemiologic Health Survey at Iowa Army Ammunition Plant	\$1,000
Brown Tree Snakes	\$2,000
Enhanced Medical Situational Awareness	\$3,000
HEALTHeForces	\$3,500
Patient Medication Administration and Medical Equipment Tracking at Keeler AFB Medical Center	\$1,000
Theater Enterprise Wide Logistics System	\$300
Copper Antimicrobial Research Program	\$3,000
Hawaii Federal Health Care Network	\$27,500
Integrated Transnational Prostate Disease Research	\$5,000
Light Emitting Diode Wound Healing of Oral and Cutaneous Lesions	\$4,000
Peer Reviewed Medical Research Program	\$50,000
Peer Reviewed Breast Cancer Research Program	\$150,000
Chemical Agents and Munitions Destruction	\$57,000
Drug Interdiction and Counter Drug	\$48,000
Former Soviet Union Threat Reduction	\$80,000
Associate Intermodal Platform Pallet System	\$4,000
Coal Transformation Laboratory	\$1,000
Development and Validation of Advanced Design Technologies for Hypersonic Research	\$3,000
High Energy Laser for Detection, Inspection and Non-destructive Testing	\$5,000
Hybrid Materials for Thermal Management	\$1,000
UNR-Millimeter Wave-Based Fatigue Countermeasure Technology	\$7,000
Battlespace: Reducing Military Decision Cycles	\$3,000
High Temperature Hydrogen Energy Production Facility	\$1,000
Partnership in Innovative Preparation for Educators and Students (PIPES) and the Space Education Consortium (SEC)	\$2,000
Secure Grids for Network Centric Operations	\$3,000
University Research Initiatives	\$10,000
Accelerated Insertion of Advanced Materials and Certification for Military Aircraft Structure Material Substitution and Repair	\$3,500
Advanced Aerospace Carbon Foam Heat Exchangers	\$2,000
Advanced Carbon Fiber Research & Testing Initiative	\$3,000
Advanced Engineered Non-Linear Optical Materials for Critical Wavelengths	\$1,200
Air Force Minority Leaders Program	\$7,500

Aircraft Fatigue Modeling and Simulation	\$2,500
Consortium for Nanomaterials for Aerospace Commerce and Technology (CONTACT)	\$2,000
Durable Hybrid Coatings for Aircraft Systems	\$1,500
Fire and Blast Resistant Materials for Force Protection	\$2,000
Fully Integrated Solar-Powered Interior Lighting Technology	\$2,000
Nanocomposites for Lightning Protection of Composite Airframe Structures	\$2,000
Nanotechnology research	\$5,000
ONAMI Safer Nanomaterials and Nanomanufacturing	\$4,000
Polymer Stress and Sensor Damage Sensors for Composites	\$3,600
Characterization of Airborne Environment for Tactical Lasers	\$4,000
Single-Mode Optical Connectors for Advanced Air Vehicles	\$1,000
Component Object Model (COM) Attitude Control System Simulation/Trainer	\$4,000
Solid Electrolyte Oxygen Separator	\$4,000
Active Combustion Control Systems for Military Aircraft	\$4,000
Advanced Fuel Cell Based Power System for Small UAVs	\$800
Alternative Energy Research	\$20,000
High Energy Superior Lithium Battery Technology	\$6,000
Modified F-22 Maintenance-Free Nickel Cadmium-Aircraft Batteries for the F-16	\$100
VDVP for UAV/UCAV Aircraft Engines	\$2,000
Super-Resolution Sensor System (S3)	\$5,000
Advanced Modular Avionics for Operationally Responsive Space Use	\$2,500
Deployable Structure Systems for Space	\$2,000
Field Programmable Gate Arrays	\$2,000
HAARP	\$4,000
High Energy Matter Space Propulsion Initiative	\$1,000
Microsatellite Target System	\$2,000
Multicontinuum Technology for Space Structures	\$2,000
Nuclear Test Seismic Research	\$3,000
Reconfigurable Electronics and Non-Volatile Memory Research	\$2,000
Shielding Rocket Payloads	\$400
Cyber Attack Mitigation and Exploitation Laboratory II (CAMEL II)	\$2,000
Aircraft Evaluation Readiness Initiative (AERI)	\$2,000
Hybrid Bearings	\$3,000
Metals Affordability Initiative	\$5,000
Strategic Bio-fuels Supply Program	\$2,000
Bi-Polar Wafer-cell Nickel Metal Hydride Battery	\$2,000
Family of Motors Capability Demonstration	\$8,000
Silicon Carbide Power Electronics for More Electric Aircraft	\$6,900
Versatile Affordable Advanced Turbine Engine, High Speed Turbine Engine Demonstrator	\$6,000
Low Cost/Improved Performance Helmet Display and Life Support Technologies	\$3,000
Water Purification with Fused Carbon Nanotube Nanostructured Material	\$3,000
Advanced Threat Alert Advanced Technology Demonstration	\$2,100
COTS Technology for Space Situational Awareness	\$2,000
Intelligent Free Space Optical Satellite Communications Node	\$1,600
Large Automated Production of Expendable Launch Structures (LAPELS)	\$4,300
Systematic Hierarchical Approach to Radiation-Hardened Electronics (SHARE)	\$2,400
Thin Film Amorphous Solar Arrays	\$3,200
Maui Space Surveillance System (MSSS) Operations & Research	\$23,000
High Accuracy Network Determination System (HANDS)	\$5,200
PanSTARRS	\$9,000
All Electric Laser	\$2,000
Applications of LIDAR to Vehicles with Analysis (ALVA)	\$9,000
Real-time Optical Surveillance Applications	\$2,000
Satellite Active Imaging National Testbed Program	\$3,000
Space Situational Awareness	\$1,200
Massively Parallel Optical Interconnects for Battlespace Information Exchange	\$4,900
Tactical Automated Security System (TASS) Advanced Communications Module	\$3,000
Multi-mission Deployable Optical System	\$5,000
02 Diesel Air Quality Project	\$2,000
Assessment of Alternative Energy for Aircraft Ground Equipment (AGE)	\$3,000
B-1 Bomber 16 Carry Adapter	\$10,000
AT-6B	\$3,000
Transfer from APAF Line 23 for restructured radar modernization	\$38,000
Massive Ordnance Penetrator for B-2	\$10,000
Rapid Replacement of Mission Critical Logistics Electronic Components	\$2,000
Space Control Test Capabilities	\$4,000
RAIDRS Block 20 (Air Force unfunded requirement)	\$7,000
ASSET eWing and Data Fusion Technology Integration Base	\$5,000
Global Awareness Presentation Services (GAPS)	\$3,000
Electronic Warfare Modeling, Simulation and Wireless Testing Center	\$4,500
Joint Strike Fighter F136 Alternate Engine	\$240,000
Aging Landing Gear Life Extension	\$2,000
Holloman High Speed Test Track	\$4,500
Predator Aircrew Mission Training System (PMATS) Upgrade	\$4,000
F-15 AESA Radar Upgrade	\$3,000
Compass Call	\$5,000
Research Visualization Facility	\$1,200
Pointing and Stabilization System Upgrade for Cobra Ball	\$2,500
Cyber Security Attack and Defend Exercises	\$800
Ku Beyond Line of Sight Satcom Datalink for Senior Scout	\$8,000
Operations Risk Management Visualization and Integration	\$1,000
Terminal Surveillance and Approach System (TSAS)/ATCALs	\$3,000
GPS User Equipment-transfer from RDAF, Line 42 (authorization adjustment)	\$63,000
Combat Sent Wideband Sensor Upgrade Program	\$5,000

Center of Excellence for Defense UAV Education	\$4,000
Integrator Unmanned Aircraft System Advanced Concepts Development	\$4,000
Multi-Sensor Detect, See, & Avoid	\$5,000
C-130 AMP transfer from APAF, Line 47,C-130 Automated Inspection, Repair, Corrosion and Aircraft	\$60,000
Tracking Condition Based Maintenance Plus	\$2,000
C-130 De-Icing System	\$1,500
Combat Casualty Management System	\$3,600
High Temperature, Laser Sintered Polymeric Material Digital-Product Definition	\$2,000
Rapid Manufacturing and Repair of Composite Components	\$2,000
Refigurable Tooling Systems	\$2,000
Alternate Carbon Stationary Fuel Cell Demonstrator	\$4,000
Alternative Energy Fuel Cell Power Generation	\$2,500
Heavy Duty Hybrid Electric Vehicle	\$2,000
WR-ALC Special Operations Forces	\$3,000
Counter Narcotics	
Nevada National Guard Counter-Drug Ops	\$3,500
Regional Counter-Drug Training Academy-Meridian	\$2,160
Indiana National Guard Counter-Drug Program	\$800
Multi-Jurisdictional Counter-Drug Task Force Training	\$3,000
Southwest Border Fence	\$1,200
Alaska National Guard Counter-Drug Program	\$2,500
Hawaii National Guard Counter-Drug Program	\$3,000
Kentucky National Guard Counter-Drug Program	\$3,200
Midwest Counter-Drug Training Center	\$5,000
New Mexico National Counter-Drug Support	\$3,000
Northeast Counter-Drug Training Center	\$4,000
Appalachia High Intensity Drug Trafficking Area Tennessee	\$4,000
West Virginia Counter-Drug Program	\$1,304
Wireless Exploitation Program	\$1,200
National Guard Counter-Drug Support	\$20,000
TOTAL FOR OTHER DOD PROGRAMS	\$1,324,664
 GRAND TOTAL OF DEPARTMENT OF DEFENSE APPROPRIATIONS PORK	 \$12,715,862